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FIGURE 4251

ATGTATAATATATCTAACTGTGGGTCACAGCCCCCTCCACGACCGTCCACAAACCAGTAGCCTCCCTTCGCTCC
CACCTCCGCGCCGACGGGCCTGGAGCTCCTCCGCACACCACACCAAGCCGACCACTCAACACCAGAGGACCCACA
GAAGAATTCTCTCCACGCCCCACCCCCACAGCATCGGCCTTCACCACCGCCGCGCTGCCGGAAGCGCCCCACGT
CTCCACGCCACCACCGTGAGTGCTCAGTGTGGGCCCCCTTCCTGTTATTGTGAACTGTTAGCCAAGATACGGCTT
GGTGATGAGAAGTGCAACATCTCTTGTAACCCAGTGCACCAGTCCAGGGGTGTGGAGAG

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FIGURE 4252

ATGGCGGCTGCGCCGGCCTTGAAGCACTGGCGCACCACGCTGGAGCGGGTGGAGAAGTTCGTGTCGCCGCTCTAC
TTTACCGACTGTAACCTCCGCGGCAGGCTTTTTGGGGCCAGCTGCCCTGTGGCTGTGCTCTCCAGCTTCCTGACG
CCGGAGAGACTTCCCTACCAGGAGGCAGTCCAGCGGGACTTCCGCCCCGCGCAGGTCCGGCGACAGCTTCGGACCC
ACATGGTGGACCTGCTGGTTCCGGGTGGAGCTGACCATCCAGAGGCATGGGTGGGCCAGGAAGTTCACCTTTGC
TGGGAAAGTGATGGAGAAGGTCTGGTGTGGCGTGATGGAGAACCTGTCCAGGGTTTAACCAAAGAGGGTGAGAAG
ACCAGCTATGTCTGACTGACAGGCTGGGGGAAAGAGACCCCCGAAGCCTCACTCTCTATGTGGAAGTAGCCTGC
AATGGGCTCCTGGGGGCCGGGAAGGGAAGCATGATTGCAGCCCCCTGACCTGAGAAGATGTTCCAGCTGAGCCGG
GCTGAGCTAGCTGTGTTCCACCGGATGTCCACATGCTCCTGGTGGATCTGGAGCTGCTGCTGGGCATAGCCAAAG
GGCCTCGGGAAGGACAACCAGCGCAGCTTCCAGGCCCTGTACACAGCCAAATCAGATGGTGAACGTGTGTGACCCCT
GCCCAGCCCCGAGACCTTCCAGTGGGCCAGGCCCTGGCCTCCAGGTTCTTTGGCCAACATGGGGGTGAAAGCCAA
CACACCATTATGCCACAGGGCACTGCCACATTGATACAGCCTGGCTTTGGCCCTTCAAAGAGACTGTGAGGAAA
TGTGCCCCGAGCTGGGTGACCGCCCTGCAGCTCATGGAGCGGAACCTGAGTTCATCTTTGCCCTGCTCCAGGCG
CAGCAGCTGGAATGGGTGAAGAGCCGCTACCCTGGCCTGTACTCCCGCATCCAGGAGTTTGCCTGCCGTGGGCAG
TTTGTGCTGTGGGGGGCACCTGGGTGGAGATGGATGGGAACCTGCCCAGTGGAGAGGCCATGGTGAGGCAGTTT
TTGCAGGGCCAGAACTTCTTTCTGCAGGAGTTTGGGAAGATGTGCTCTGAGTTCTGGCTGCCGGACACCTTTGGC
TACTCAGCACAGCTCCCCCAGATCATGCACGGCTGTGGCATCAGGCGCTTCTCACCAGAAATTGAGCTGGAAT
TTGGTGAACCTCCTTCCACACCATACATTTTTCTGGGAGGGCCTGGATGGCTCCCGTGTACTGGTCCACTTCCCA
CCTGGCGACTCCTATGGGATGCAGGGCAGCGTGGAGGAGGTGCTGAAGACCGTGGCCAACAACCGGGACAAGGGG
CGGGCCAACCACAGTGCCTTCTCTTTGGCTTTGGGGATCGGGGTGGTGGCCCCACCCAGACCATGCTGGACCGC
CTGAAGCGCCTGAGCAATACGGATGGGCTGCCAGGGTGCAGCTATCTTCTCAAGACAGCTCTTCTCAGCACTG
GAGAGTGACTCAGAGCAGCTGTGCACGTGGGTGGGGAGCTCTTCTGGAGCTGCACAATGGCACATACACCACC
CATGCCCAGATCAAGAAGGGGAACCGGGAATGTGAGCGGATCCTGCACGACGTGGAGCTGCTCAGTAGCCTGGCC
CTGGCCCGCAGTGCCCACTTCTATACCCAGCAGCCAGCTGCAGCACCTCTGGAGGCTCCTTCTCTGAACCAG
TTCCATGATGTGGTGACTGGAAGCTGCATCCAGATGGTGGCAGAGGAAGCCATGTGCCATTATGAAGACATCCGT
TCCCATGGCAATACACTGCTCAGCGCTGCAGCCGACGCCCTGTGTGCTGGGGAGCCAGGTCCTGAGGGCCTCCTC
ATCGTCAACACACTGCCCTGGAAGCGGATCGAAGTGATGGCCCTGCCCAAACCGGGCGGGGCCACAGCCTAGCC
CTGGTGACAGTGCACAGCATGGGCTATGCTCCTGTTCTCCCCCACCTCACTGCAGCCCCCTGCTGCCCCAGCAG
CCTGTGTTCTAGTGCAAGAGACTGATGGCTCCGTGACTCTGGACAATGGCATCATCCGAGTGAAGCTGGACCCA
ACTGGTCGCTGACGTCCTTGGTCTGGTGGCCTCTGGCAGGGAGGCCATTGCTGAGGGCGCCGTGGGGAACCAG
TTTGTGCTATTTGATGATGTCCCTTGTACTGGGATGCATGGGACGTCATGGACTACCACCTGGAGACACGGAAG
CCTGTGCTGGGCCAGGCAGGGACCTGGCAGTGGGCACCGAGGGCGGCCTGCGGGGACGCGCTGGTTCTTGCTA
CAGATCAGCCCCAACAGTCGGCTTAGCCAGGAGGTTGTGCTGGATGTTGGCTGCCCCCTATGTCCGCTTCCACACC
GAGGTACACTGGCATGAGGCCACAAAGTTCTGAAGGTGGAGTTCCCTGCTCGCGTGGGAGTTCCAGGCCACC
TATGAGATCCAGTTTGGGCACCTGCAGCGACCTACCCACTACAATACCTCTTGGGACTGGGCTCGATTGAGGTG
TGGGCCCATCGCTGGATGGATCTGTCAGAACACGGCTTTGGGCTGGCCCTGCTCAACGACTGCAAGTATGGCGCG
TCAGTGCGAGGCAGCATCCTCAGCCTCTCGCTCTTGGGGCGCCTAAAGCCCCGACGCTACTGCTGACACGGGG
CGCCACGAGTTCACCTATGCACTGATGCCGACAAGGGCTCTTCCAGGATGCTGGCGTTATCCAAGCTGCTGCTAC
AGCCTAAACTTCCCCCTGTTGGCTCTGCCAGCCCCAGCCAGCGCCGCCACCTCCTGGAGTGCGTTTTTCCGTG
TCTTACCCGCGGTGCTATTGGAGACCGTCAAGCAGGCGGAGAGCAGCCCCAGCGCCGCTCGCTGGTCTGAGG
CTGTATGAGGCCACGGCAGCCACGTGGACTGCTGGCTGCACTTGTGCTGCTGCGGTTTCAAGAGGCCATCCTCTGC
GATCTCTTGGAGCGACCAAGCCCTGCTGGCCACTTGACCCTTCGGGACAACCGCCTGAAGCTCACCTTTTCTCCC
TTCCAAGTGTGCTCCTGTTGCTCGTCTCAGCCTCCGCCACACTGAGTCCCTGGGGCTGGGGTTTTGTTTGTGA
GAAGGCTCTGGGGACTCCTAATTTCTGCTTCCCAGCCTAAAGCAGGGATCAGTCTTTCTGTGGAATAAATCC
TTGGATCGGG

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FIGURE 4253

MGVVAPPRPMLDRLKRLSNTDGLPRVQLSSPRQLFSALESSEQLCTWVGELFLELHNGTYTTHAQIKKGNRECE
RILHDVELLSSALARSQFLYPAAQLQHLWRLLLLNFHDDVVTGSCIQMVAEEAMCHYEDIRSHGNTLLSAAAA
ALCAGEPGPEGLLIVNTLPWKRIEVMALPKPGGAHSLALVTVP SMGYAPVPPPTSLQPLLPPQPVFVVQETDGSV
TLDNGIIRVKLDPTGRLTSLVLVASGREIAIEGAVGNQFVLFDDVPLYWDAWDVMDYHLETRKPVLGQAGTLAVG
TEGGLRGSAAWFLLOISPNSRLSQEVVLDVGCPYVRFHTEVHWHEAHKFLKVEFPARVRSSQATYEIQFGHLQRPT
HYNTSWDWARFEVWAHRWMDLSEHGFGALLNDCKYGASVRGSILSLSLLRAPKAPDATADTGRHEFTYALMPHK
GSFQDAGVIAAYS LNFP LLALPAPSPAPATSWSAFSVSSPAVVLETVKQAESSPQRRSLVLRLYEAHGSHVDCW
LHLSLPVQEAILCDLLERPDPAHGLTLRDNRLKLTFSPFQVLSLLLVLQPPPH

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FIGURE 4254

GTAACCTGGCTCCGGGGGCTCCGCTCGCCTGCCCCACGCCGCCGCCACCCAGGACCGCGCCGCCGGCCTCTGC
CGCGAACAAACCCTTCTGACGGCCCTCGCTGTGCAGGCCAGGATGCCTCTCCCCATCCGCCCCGCTGCGGAAA
GTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGGAGGATCCACCTGGAGCTGAGGAACCTGGAC
CCCGTCAGCTGTTTCGAGAACTTGTCTTGGACAATTGCAAATCAAATGATGGAAAAATTGAGGGCTTAACAGCTGA
ATTTGTGAACCTAGAGTTCCCTTAGTTAATAAATGTAGGCTTGATCTCAGTTTCAAATCTTCCCAAGCTGCCTAA
ATTGAAAAAGCTTGAACCTCAGTGAAAAATAGAATCTTTGGAGGTCTGGACATGTTAGCTGAAAAGCTTCCAAATCT
CACACGTCTAACTTAAGTGGAATAAACTGAAAGATATCAGCACCTTGGAACTTTGAAAAAGTTAGAATGTCT
GAAAAGCCTGGACCTCTTTAACTGTGAGGTTACTAACATGAATGACTACTGAGAGTGTCTTCAAGCTCCTGCCCC
AGCTTACCTACATGGATGGCTATGACCAAGAGGACCAGGAGGAACCTGACTCAGATGCTGAGGTGGATGGTGTGG
ATGAAGAGTAGGAGGGCGAAGAAGAAGACGAAGAAGACGAGGAGGATGAAGATGGTGAAGAAGAGGAGTTTGATG
AAGAAGATGATTAAGACCCCAGATGACCTGCAGAAACAGAACTGTTTAGTATCGGTTGGACIGCTCATGGATTG
GTAGCTGTTAAAAAAAAAAAAAAAAAGGTAGCTGATACAAACCCAGGACACCCACCCACCCAAAGAGCCAAAGA
ATAGTTCCTGTGACATTCCGTCTTCTCCATGTAGTCCCTCTTGGTAATCTACCAATCTACCATCGAGCTTAGGG
ACTTCACCCCAACAAAATTGTAAGTGTTGTTAGGTTTTTGTGTGAGACTCTTGCTGTAGCGTAGATAGCTGTGAT
TGGTGAGTCAACCATCTGTGGCTACCAGTTACACTGGGACTGTAACAGCATTTTACTTTCTGTACAACAAAAT
CTTTGTAAATAAAATCTTAACATT

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FIGURE 4255

MDMKRRIHLELRNWTPSAVRELVDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLELSENR
IFGGDMLAEKLPNLTRLNLSGNKDKDISTLEPLKKLECLKSLDLFCEVTNMNDY

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FIGURE 4256

GAGCGGCGCCCGCTCGAGAGAAGTGGGGCCGAGATCGCGCCGTCCCAGCCCGCCCGCGCGTCTGCGCTGCTCC
GGCGCCCTTACCCCTGCTGGCCCTTGCAAGGCGCGACCGGCGGCCATGCAGCCCGGGGCTGAGGCGCCCCATG
GCAAAGCCGGCGGTCCCGGCGACGACGGCGCATGGAGAACTTCCGTAAGGTGCGCTCCGAAGAGGCGCCAGCGGG
GTGCGGGGCGGAGGGAGGCGGGCCGGGCTCCGGCCCCCTTCGCAGACCTGGCGCCGGGCGCGGTGCACATGCGGGT
CAAGGAAGGCAGCAAGATCCGGAACCTGATGGCCTTCGCCACCGCCAGCATGGCGCAGCCAGCCACGCGCGCCAT
CGTCTTCAGCGGCTGCGGCCGGGCCACCACAAAACCGTCACGTGCGCCGAGATCCTCAAGCGCCGCCTGGCGGG
CCTGCACCAGGTCACGCGGCTGCGCTACCGGAGCGTACGCGAGGTGTGGCAGAGCCTCCCGCCTGGGCCCCACGCA
GGGTCAGACGCTGGCGAGCCGGCCGCTAGTCTCAGCGTACTTAAGAACGTGCCCGGCCCTCGCCATCCTACTTTC
CAAGGACGCGCTGGATCCGCGACAGCCCGGCTACCGCCCCGAATCCCCATCCTGGTCCCTCGTCCCCGCCAGC
CGCGCCAGCGTCCAAGAGGAGCCTAGGGGAACCGCAGCTGGAGAAGGCTCCGCGAAGCGATCGCAACCCGAGCC
AGGGGTGCGGACGAGGATCAGACGGCCTGAAACTCCGACTGTGGGCCACCTAGTCCGGCAGGATCTTCCGCCA
GCGCCTCCACCTTCAGATGTACCTCCAGCCTTTCACTCCTCGGTCTCCGGAGCCCACAACCTGGACACAGCTCC
TCAAGACAGGTAGCATGGACCTTAAGGCGACAAGAGAGGGGGCCCCAGGAGTGGCAGGAGAGGATCCCCGACCACC
CTAGGGAACTTCGTGCGATAATTGCTGCTTATGCCCCGTGTTGCGTGAAGACACGGAACCTTCACCTTTTCTGGGA
CCTTCTTTGGGGGAGAATGGTGGACAGTGGGATTCTGGAACTTGTTTGGGACCCCCAAGGGTTAAAGCCACCCA
GCATTACGAAGAGCACCTGAAGTATGGAAGCTGAGAAGAGTTATTGGAATCACCCCCACCGTTGACAGAGGAAG
GCAGGGGGTGAGAATTAAGTCTTGAGGGTAGGAGAGTCTGAGATGTGGGGGCCCTATTCCGCTCCCCGCCCTGG
GACAGTTTTCTTTCTAGTTTTCTTTCCCTGCTTCAGAGGAGCATCTCTGAGGGTTCTAGCTCTTTTAACCCC
CTTTTCCCCCTGCTGGCCCAGAGGGAGACCCAGGACTGAACTCTCCAGGCCTCCTCCCCTGAGCCCTGCAGCTGG
CTGGAGTCTTGCTTCCAATAAAACAAGCACA

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FIGURE 4257A

GGCAGCTAGGAGGGTTGCTCCGGGCTTGGTGCTCACTGCGACTTCCC GCGCAGGGCCCCGGTCGGACTAGGACCCG
CGGCCTGAGAGACGCTGGAGGATGCGGACGCGGAGGCCCGCTGGGGTAGCGGCGGCGGGAGTCCTGGCGCTCTGC
AGGTCAGAAGTTGAGTAGCAGGGGCCCTAGGAGGGCTCGAAGCCTTCACAGCGATGGCAGAGAAGCGACCCCTGAG
AACCCTGGGGCCTGTGATGTATGGCAAGCTGCCCCGCTTAGAGACAGACTCCGGGCTCGAGCACAGCCTGCCCCA
CTCTGTTGGTAACCAGGATCCCTGCACCTACAAGGGGTCTACTTCTCCTGCCCATGGCAGGTACTCCTAAGGC
CGAGTCTGAGCAGTTGGCGTCTTGGACCCCATACCCACCCTTGTA CTCTACCGGTATGGCAGGACCCCCACTTCA
GGCAGACAACCTGTGTGACCAACTGCCTGTTCTACCGCTCGCCAGCAGAGAAGGCCCTGAGAAGATGCAGGACTCCAG
CCCTGTTGAGCTCCTGCCCTTCAGTCCCCAGGGCTCACTCCTACCCAGGCCACCCTGGCAGCACCCAAACCTGT
CTACCGCAACCTCTGTGCTATGGGCTCTCAACTTGTCTGGGGGAAGGAGCAGTGAAGAGGCCACTGGATGTTGA
CTGGACTCTGGCGACTGGGCCCCCTGTTGCCCTCAGCTGACCCACCCTGCTCTCTGGCCCCAGCTCCTAGCAAGGG
CCAGACTCTGGATGGCACCTTCTTTCGGGGGGTGCCAGCTGAGGGGTCCAGTAAAGACTCCTCAGGGAGCTTCTC
CCCATGCCAGCCCTTCTCTGGAGAAATATCAGACCATCCACAGCACGGGCTTCTTGGCCTCCAGGTACACAGGTCC
TTACCCTAGGAACCTCCAAGCAAGCAATGTCTGAGGGGCCCTCAAGTCTTGGACCCAGCTGGCCCCAGCCCTGGG
GCCACCCTGTGAGGACACCGGGGCCACCCACTACCCACCACCCACCACCCACCACCCACCCCTTCACAGGCCCT
GCCTTGCCCTCCAGCCTGTGCGCCACCCAGAGAAGCAGGGCAGCTACAGCCCAGCACTCCCACTGCAGCCTCTGGG
GGGCCACAAGGGGACCGGGTACCAGGCTGGTGGGCTGGGCAGCCCCCTACCTGAGGCAGCAGGCAGCCCAGGCACC
TTACATTCCCCCACTGGGGCTGGACGCTTACCCCTACCCCTCTGCCCCCTCTCCAGCACCCCTCTCCAGGCCTCAA
GCTGGAGCCGCTCTCACTCCACGGTGCCATTGGACTTGGCCCCCAGACACTGAGTTTTCTTATGCCCGGGA
TGACCTCTCTCTATGGAGCATCCCTGGGCTTGGAGGGACACCACCTTCCAGAACAAATGTGCGGGCTGTGCC
ACAGCCTGGTGCCTTCCAGAGGGCATGCCAGCCTTTGCCAGCGAGCCAGCCCTGCTCAGAGCCTGTGAGGCCTGC
ACAGGAAGCCGAAGAGAAGACCTGGCTGCCAGCTGCAGGAAAGAGAAGCTCCAGCCCCGGCTCAGTGAGCACTC
TGGGCCGCCCATCGTCATCCGAGACAGTCCAGTTCCTGTACCCCCCAGCACTGCCCCCTGTGCCCGGGAGTG
CCAGTCTCTTCCACAGAAGGAGGGCGCAAGGCCACCCAGCTCTCCACCAATGCCTGTCATTGACAATGTCTTCAG
CCTGGCCCCCTACCGTGACTATCTGGATGTGCCGGCACCCGAGGCCACAACCTGAGCCTGACTCTGCCACAGCTGA
GCCTGACTCAGCCCCAGCCACCAGTGAAGGTCAGGACAAAGGCTGCAGGGGGACCCTGCCTGCCCAGGAGGGCCC
CTCAGGGAGTAAACCCCTAAGGGGCTCACTTAAGGAGGAGGTAGCCCTGGATTGAGTGTGAGGAAGCCACAGC
AGAGGCCTCCCCTGTCAAGGCTTCCCGTTCTGTGGAGCATGCCAAGCCTACTGCAGCCATGGATGTGCCAGATGT
GGGCAACATGGTGTGAGATCTGCCAGGCCTGAAAAAGATAGACACAGAAGCACCAGGCTTGCTGGGGTGCCAGT
GACCACAGATGCCATGCCAAGGACCAACTTCCACAGCTCTGTGGCCTTCATGTTCCGAAAGTTCAAGATCCTCCG
TCCGGCACCTTTGCCTGAGCCGTGGTCCCGTCCACGCCACCTCAGCTCCTGCTCCACACAGCCTGCACCCAC
CCCCACATCTGGGCCCATTTGACTGCGGATTCTCGCTCAACAGCCCTTGTCTGTGACCTGCTTCAGCCTGGCACT
GCCCAGCCCTCCAGCCGTAGCTGTGGCTCCCTGCCCCGCTCCAGCTCCATCCCTGCTCCGGCTCGAGCTCA
GGCTCCAGCTTCAGCCCGGATCCAGCTCCAGCTCCAGTCCAGTTGCAGGCCCTGCTCCAGCATCTACTTCAGC
CCAGGGGACTCCCTGGAGCAGCATTTTACAGGACTACATGCGTCCCTGTGTGATGCTATTTCTGGCTCCGTGCG
CCACTCTCCTCCAGAGAAGCTTCGCGAGTGGCTAGAGACGGCTGGGCCCTGGGGCCAGGCTGCGTGGCAGGACTG
CCAGGGTGTGAGGGGCTGCTGGCCAAGCTGCTGTCTCAGTGCAGCGCTTCGATCGCACCCACCGGTGCCCTT
CCCCATGTGGTGGAGCTGGCGCCATCTTCGTGCCATTACCTGGTGAAGGAGCGGCTCTTCCCTCGGCTGCC
ACCCGCTTCTGTGGACCATGTGCTGCAGGAGCATCGTGTGAGCTGCGGCCACCACGCTGTGCGAGGAGCGGGC
ACTGCGGGAGCTCGCCCTGCCAGGCTGCACCTCACGCATGCTGAAGTTACTGGCGCTGCGCCAGCTGCCGGACAT
TTACCCCGACCTTCTCGGCCTGCAGTGGCGGACTGTGTACGCCCGCAGCTGGGTGACTTTGACACTGAGGCTGG
AGCTGTGTCTCCTCAGAGCCCACTGTGGCCAGAGGTGAGCCAGAGAGCCTAGCCCTGGCTCAGAAGTCACCGGC
CCCCAAGGTCAGGAAGCCAGGCAGGAAGCCACCAACCCCTGGCCCCGAGAAAGCAGAGGCACTGCTGGGGAAGA
GTCTGTGGTGCCTCCCTACCCCTGCTACCAAGTGCAGCCACCTGGCCCCCACTGAAGGCCGCTTCCGACAG
TCTGCTGGAGACCGCTGGCTCAATGGCCTGGCTCTGCCACCTGGGGCCACAAGTCTCAAGACCAGACAGCC
CTCACCCCTGCCACAGCTGCTGGACAGCCAGAGCCATCACTGTAGCACTGGTGGCAGTGTGTGTATAGCA
GTCACTCTCCACCCTTCCCTTCTGCTGCCAGCTGCCCCGGGGCCACGAGTGGATGCTGGGGCTGTGGCTGTCTC
CCCTGGAGGGGTTCCATCTCTGACCTGTGGCCCATTCAGGGTGGGCTGAAGAGCCCTGAGCTTTTAACGTGAG
GGTCTTTATTGGATAGGACTACTCCCTATTTCTTGCTAGAGAACACACATGGGCTTTGGAGCCCCGACAGACCTG

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FIGURE 4257B

GGCTTGAATCCCGGCTCGTGTTCTTGCTGCAGGACCTGGGCAAGAACTTCACCTCTGCTGAGCCCTCATTCCCC
ATGTGTAAAATGGGACAACGCAACCTACCTCACAGGGTTGTTGTGGGGATGCTGCCTGATACATACCCTGTCACC

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FIGURE 4258

MDVPDVGNMVS DLPGLKKIDTEAPGLPGVPVTTDAMPRTNFHSSVAFMFRKFKILRPAPLPAAVVPSTPTSAPAP
TQPAPTPTSGPIGLRILAQQPLSVTCFSLALPSPPAVAVAS PAPA PAPS PAPA RAQAPASARDPAPAPAPVAGPA
PASTSAPGDSLEQHFTGLHASLCD AISGSAHSPPEKLREWLETAGPWGQA AWQDCQGVQGLLAKLLS QLQRFDR
THRCPPPHVVRAG AIFVPIHLVKERLFPRLPPASVDHVLQEH RVELRPTTLSEERALRELALPGCTSRMLKLLAL
RQLPDIYPDLLGLQWRDCVRRQLGDFDTEAGAVSSSEPTVARGEPE SLALA QSPAPKVRKPGRKPPTPGPEKAE
AAAGEESCGASPTPAT SASPPGPTLKARFRSLLETAWLNG LALPTWGHKSSRPDQPSPCPQLLDSQSHHL

GTCTCTCCCGGGTCCGAGGGCGCTGGAACCACGACGGCGGCGAAGCGGAGAGGAGCCCGCGCTCTCCGCCCG
CACGGCTCCAGGTCTGGGGTCTGCGCTGGAGCCGCGCGGGGAGAGGCCGTCTCTGCGACCGCCGCGCCCGCTCCG
GACCGTCCGGGTCCGCGGCCAGCCCCGCCACCAGCAATGGGCTCTGGCCCCGTCTCGCTGCCCCGTGGCGCTGTCTG
CCGCCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCCAGTGGCCAGGGCCTCAGAGGCTGAGCACCGTCTA
TTTGAGCGGCTGTTTGAAGATTACAATGAGATCATCCGGCCTGTAGCCAACGTGTCTGACCCAGTCAATCCAT
TTCGAGGTGTCCATGTCTCAGCTGGTGAAGGTGGATGAAGTAAACCAGATCATGGAGACCAACCTGTGGCTCAAG
CAAATCTGGAATGACTACAAGCTGAAGTGAACCCCTCTGACTATGGTGGGGCAGAGTTTATGCGTGTCCCTGCA
CAGAAGATCTGGAAGCCAGACATTGTGCTGTATAACAATGCTGTTGGGGATTTCAGGTGGACGACAAGACCAA
GCCTTACTCAAGTACACTGGGGAGGTGACTTGGATACCTCCGGCCATCTTTAAGAGCTCCTGTAAATCGACGTG
ACCTACTTCCCGTTTGATTACCAAACCTGTACCATGAAGTTCGGTTTCTGGTCTACGATAAGGCGAAAATCGAT
CTGGTCTGTATCGGCTCTTCCATGAACCTCAAGGACTATTGGGAGAGCGGCGAGTGGGCCATCATCAAAGCCCCA
GGCTACAAACACGACATCAAGTACAACCTGCTGCGAGGAGATCTACCCGACATCACATACTCGCTGTACATCCGG
CGCTGCCCTTGTCTACACCATCAACCTCATCATCCCTGCCTGCTCATCTCCTTCTCTACTGTGCTCGTCTTC
TACCTGCCCTCCGACTGCGGTGAGAAGGTGACCCTGTGCATTTCTGTCTCTCTCTCCCTGACGGTGTCTCTCTCT
GTGATCACTGAGACCATCCCTTCCACCTCGCTGGTCAATCCCTGATTGGAGAGTACCTCCTGTTACCATGATT
TTTGTAACCTTGTCCATCGTCATCACCGTCTTCGTGCTCAACGTGCACCTACAGAACCCCGACGACACACAATG
CCCTCATGGGTGAAGACTGTATTCTTGAACCTGCTCCCCAGGGTCATGTTTATGACCAGGCCAACAGCAACGAG
GGCAACGCTCAGAAGCCGAGGCCCCCTCTACGGTGCCGAGCTCTCAAATCTGAATTGCTTCAGCCGCGCAGAGTCC
AAAGGCTGCAAGGAGGGCTACCCCTGCCAGGACGGGATGTGTGGTTACTGCCACCACCGCAGGATAAAAAATCTCC
AATTTCAGTGCTAACCTCACGAGAAGCTCTAGTTCTGAATCTGTTGATGCTGTGCTGTCCCTCTCTGCTTTGTCA
CCAGAAATCAAAGAAGCCATCCAAAGTGTCAGTATATTGCTGAAAATATGAAAGCACAAAATGAAGCCAAAGAG
ATTCAAGATGATTGGAAGTATGTTGCCATGGTGATTGATCGTATTTTTCTGTGGGTTTTTACCCTGGTGTGCATT
CTAGGGACAGCAGGATTGTTTTCTGCAACCCCTGATGGCCAGGGAAGATGCATTAAGCACTAAGCTGTGTGCCTGCC
TGGGAGACTTCCTTGTGTACAGGGCAGGAGGAGGCTGCTTCTAGTAAGAACGTACTTTCTGTTATCAAGCTACCA
GCTTTGTTTTTGGCATTTCGAGGTTTACTTATTTTCCACTTATCTTGGAAATCATGCAAAAAAAAAAAATGTCAAGA
GTATTTATTACCGATAAATGAACATTTAACTAGCCTTTTTGGTATGGTAAAGAGATGTCAAAATGTGATTCTATG
TGATTAGTATGCTATGCTATGGAATATACATGTAAAAATGTTTCTTTTGTGTTGAAACAAAACCTGGATAGAA
AAATGCTGTTTCAGAAATATGAAAAGTCATTCAGTTTACTACTACAGATCTCCAGTAATTTTTCTTATTTAGCCCC
TAATCTCTTTGAAGGTTTATACTAATTACAGCAATCCCCCATCGTTACCCATTTCTTACCATGCATTTCTCGTTCT
TTACTGGGTCTAAAGGGCTATGCCTCCATTTACAGAGAGCTTCAACTACTTCTCTTGACATCTTCTAAATTATACT
ATGAGAAATCATGCCTAGTTATTCATTGTTAATATAACTGTCTTAGTACACCATAAACTGGGTGGATTATAAACA
ACAGAAACTTCTCAGTTTTGGAGGTTGGGAGGTCCAAGGTCAAGGCACCAGCAAATTTGGTGTCTGGTGAGGGTC
CTCTTCTCTCAAAGGGTGCTTCTAGCTGTGTCTCTACATGACTGAAGGGACTAGCTATCTCTGTGGGGTCTATTT
TATAAGGGCACTAACCCCATTCATGAGAGCAGAGCCCCCATGGCCTAATCACCTTTCCAAGGGCCACCTTCTAT
CTAAGACAATCACGCTGGGAATAGGTTTCAACATATGAATTGGGGGAGGACACATTTGGACCACAGCATGAACCT
TTAGAAGCGGTTTCTCAGCCTTAGCACTACGGACATTTGGGCTGGATAAATATGTGTTGGTACAGAAATGGGG
TATCCTGTGCATTGTAGGATCTTTAGCAGTACCCTAGCCTCAACTCACTAGATGCCAATGACATACCTTGCTTCT
TACCAGTTATGATAACCAAGAATGTCTCCATTGTTAAATGTCCCCCTTAGGAGCAAATTGCCCTGGTTGAGAA
ACATTGCTTTAGACAAATTTGTTAAGAGTATCATGTACTACACTTCTGAAACTTAACGTGATCATCACCAGTGACA
GATGATTACAGAGAGAGACTGTTTGAATCTTGTCTACTAGTTTTTCTGTGCAAAAATAAAATGGACAGAATT
GCAAAAAAAAAAAAAAAAAA

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FIGURE 4260

MSGPLSLPLALSPPRLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDPVIIHFEVSMSQLVKVD
EVNQIMETNLWLKQIWNDYKWKWNPSDYGGAEFMRVPAQKIWKPDIVLYNNAVGDQVDDKTKALLKYTGVTWI
PPAIFKSSCKIDVTYFPFDYQNCTMKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAIKAPGYKHDIKYNCE
EIYPDITYSLYIRRLPLFYITINLIIPCLLISFLTIVLVFYLPSCGKVTLCISVLLSLTVFLLVITETIPSTSLV
IPLIGEYLLFTMIFVTLISIVITVFVLNVHYRTPHTHTMPSWVKTVFLNLLPRVMFMTTRPTSNEGNAQKPRPLYGA
ELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRIKISNFSANLTRSSSESVDVLSLSALSPEIKEAIQSVKY
IAENMKAQNEAKEIQDDWKYVAMVIDRIFLWVFTLVLCILGTAGLFLQPLMAREDA

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FIGURE 4261

GCGCATGCGCGGGGGCCATATTAGCAGCGGTTATTCGGTGAGCGGTGGTGGTTTATTCTTCCGCGGAGTTAAGGG
CTCCGTGGACATCTCAGGTCTTCAGGGTCTTCCATCTGGAACATATATAAAGTTCAGAAAACATGTCTCGAAGATA
TGACTCCAGGACCACTATATTTTCTCCAGAAGGTCGCTTATACCAAGTTGAATATGCCATGGAAGCTATTGGACA
TGCAGGCACCTGTTTGGGAATTTTAGCAAATGATGGTGTGTTTGCTTGACAGCAGAGAGACGCAACATCCACAAGCT
TCTTGATGAAGTCTTTTTTCTGAAAAAATTTATAAACTCAATGAGGACATGGCTTGCAAGTGTGGCAGGCATAAC
TTCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATCAGGAGCCAAT
ACCTTGAGCAGTTGGTTACAGCGCTGTGTGATATCAAACAAGCTTATACACAATTTGGAGGAAAACGTCCCTT
TGGTGTTCATTGCTGTACATTGGCTGGGATAAGCACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGAAAA
TTACGGGGGATGGAAGGCCACATGCATTGGAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAA
AGAAGGAGAAATGACCTTGAAGTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAA
ACTCTCTGCTGAAAAAGTGGAAATTGCAACACTAACAGAGAGAATGGAAAGACAGTAATCAGAGTTCTCAAACA
AAAAGAAGTGGAGCAGTTGATCAAAAAACACGAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAAGA
ACAGAAAGAAAAGGATAAAATAGAATCAGAGATTTTATTACTCATTGTTGGGGCACCATTTAGTGTAAGCAGTCC
TACTCTTCCACACTAGGAAGGCTTTACTTTTTTTAACTGGTGCAGTGGGAAAATAGGACATTACATACTGAATTG
GGTCCTTGTCATTTCTGTCCAATTGAATACTTTATTGTAACGATGATGGTTACCCCTTCATGGACGTCTTAATCTT
CCACACACATCCCCTTTTTTTTGAATAAAATTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4262

MSRRYDSRTTIFSPEGRLYQVEYAMEAIGHAGTCLGILANDGVLLAAERRNIHKLLDEVFFSEKIYKLNEDMACS
VAGITSDANVLTNELRLIAQRYLLQYQEPICEQLVTALCDIKQAYTQFGGKRPFVSVLLYIGWDKHYGFQLYQS
DPSGNYGGWKATCIGNNSAAAVSMLKQDYKEGEMTLKSALALAIVLNKTMDVSKLSAEKVEIATLTRENGKTVI
RVLKQKEVEQLIKKHEEEEEAKAEREKKEKEQKEKDK

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FIGURE 4263

ATGGTTAACCCCACTGTGTTTTTTGACATCGCCGTCGATGGCGAGCCCTTGGGCCACGTCTCCTTCGAGCTGCTT
GCAGACAAGTTTCCAAAGACAGCAGAAAACCTTTCATGCTCTGAGCACTGGAGAGAAAGGATTTGAATTATCAGAG
TTTATGTGTCAGGGTGGTGA CTTTACATGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAT
GATGAGAACTTCATCCTAAAGCATAACAGTGGTGGATGGCAAGCATGTGGTCTTTGGCAAGGTGAAAGAAGGCATG
AATATTGTGGAGGCCACGGAGCGCTTTGAGTCCAGGAATGGCAAGACCAGGAAGAAGATCACCATTGCTGACTGT
GGACAACTCTTAA

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FIGURE 4264

MVNPTVFFDIAVDGEPLGHVSFELLADKFPKTAENFHALSTGEKGFELSEFMCQGGDFTCHNGTGGKSIYGEKFD
DENFILKHTVVDGKHVVFVKVKEGMNIVEATERFESRNGKTRKKITIADCGQL

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FIGURE 4265

AGTGC GCGCCGCGCGGGCAACCCTATGCTGGCGTAATCGGGTTCCTCCGAGCCGCGTAGGACTGGTTCCGGCGG
GCTGGTGAGGAATGGAGCCGGTAGGCTGCTGCGGCGAGTGCCGCGGCTCCTCCGTAGACCCGCGGAGCACCTTCG
TGTTGAGTAACCTGGCGGAGGTGGTGGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCT
GCGTGTGCCGCTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTCCGCAG
GCCTGGCGGAGGCCCGCCACCTGGAGGGGCATTGCTTGGTTCGCGTGGTAGCAGAGGAGCTTGAGAATGTTTCGCA
TCTTACCACATACAGTTCTTTACATGGCTGATTGAGAACTTTTATTAGTCTGGAAGAGTGTGCTGGCCATAAGA
GAGCAAGGAAAAGAACTAGTATGGAAACAGCACTTGCCCTTGAGAAGCTATTCCCCAAACAATGCCAAGTCCTTG
GGATTGTGACCCCAAGGAATTGTAGTACTCCAATGGGATCAGGTAGCAATCGACCTCAGGAAATAGAAATTGGAG
AATCTGGTTTTGCTTTATTATTCCCTCAAATTGAAGGAATAAAAAATACAACCCTTTCATTTTATTAAGGATCCAA
AGAATTTAACATTAGAAAAGACATCAACTCACTGAAGTAGGTCTTTTAGATAACCCTGAACTTCGTGTGGTCCTTG
TCTTTGGTTATAATTGCTGTAAAGGTGGGAGCCAGTAATTATCTGCAGCAAGTAGTCAGCACTTTCAGTGATATGA
ATATCATCTTGGCTGGAGGCCAGGTGGACAACCTGTCACTCACTGACTTCTGAAAAGTATGTCTTGTGTGCTTCTG
ATTTTCGTCTGTGAATGAAGGGAATGGTCTCAGGTTTTGTCACTTTGGGGTTAACAATTTAAAAAACGTGTTTAA
AGAATTATTAAGATAATAGTTTCAATTTTGTAGTAGACATTGGCTAAGGGGCTTACTGAACATAATTCTGCT
TACGGTTGAATAATTACATTTTATATATATTGTCCTTCAAGAACTTCCTTGAGTCACATTCTCCTTAAAATTTG
ACATTGCCTGTTGATCTTTCCTTTGACAGATGTGGTACICTGTGTGACCTCAATGTGTACCTCCTTTCTAGTTT
CCTCCTTTAAAGGAAACACATGGTTAGAGTGATCTTTATGGCAAACTTCTCAGAGCTTCTAATATGCCCGGTG
CTGTGGAAATCTGGAAGGAGAATAGCATTACCTGTGACAGTTCCCAAATCTGTTTGGTCACAAAACTTTTTCCA
CAGAAATGCTTGCAAGTCGTACTGGTTTTTGGAAATTCGTATTAGATCTTTTGAAAGGCTTTTTCAAGCTTAAA
AATTGTGGATCTTTTTTGTACTAAGGCTTTTGCTTTCAAAGATAAAAAATATTGCTCTTC

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FIGURE 4266

MEPVGCCGECRGSSVDPRSTFVLSNLAEVVERVLTFLPAKALLRVACVCRLWRECVRRLRTHRSVTWISAGLAE
AGHLEGHCLVRVVAEELENVRILPHTVLYMADSETFISLEECRGHKRARKRTSMETALALEKLFPKQCQVLGIVT
PGIVVTPMGSGSNRPQEIEIGESGFALLFPQIEGIKIQPFHFIKDPKNLTLERHQLTEVGLLDNPELRVVLVFGY
NCKVGASNYLQQVVSTFSDMNIILAGGQVDNLSSLTSEKYVLCASDFVCE

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FIGURE 4267

ATGTTCCGAGCGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTTTCAGAGTACCCCTGGTAATA
GCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAA
GTGTCCTGCTTAGTAGCTGGAACCAAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAA
GTTCTGGTGGCTCAGCATGATGTGTACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTGGCAACTCAG
AAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCCTTTTGGCCAGAGTAGCAGCC
AACTTGGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACTATTTATGCA
GGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAAGTGTTCCTGTCCGTGGAACATCCTTTGATGCT
GCAGCAACAAGTGGCGGTAGTGCCAGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTT
GACCAGAAATTAACAAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGGTCGAGGCCTG
AAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCAGATCAACTACATGCTGCAGTTGGTGGCTTCCCGTGCT
GCTGTTGATGCTGGCTTTGTTCCCAATGACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTTAT
ATTGCTGTTGGAATATCTGGAGCCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAAT
AAAGACCCAGAAGCTCCAATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTAGTTCCTGAA
ATGACTGAGATATTGAAGAAAAAATGAATCAGGATCATGCCTTAAAAAGAAAACITTTTGTTAAAGTATTCCACTG
AAATCACAGATATTTGTGGGTATTATAACAATCATTGGAAAGCATGGAGAGCTACATTTTATAATTTGAGGGAAA
ATTTCTAACAGATGCCAGAATGCTTGTTTATGGGATTGCTGTGTTTCCTTTTAATTATTTGTGGTTCCAAACAAT
TATTGTTTGAACTTTTTTAATTCTGTACTAAAATCTATAATAAAGCTTTTCCACAGCTTTAAACT

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FIGURE 4268

MFRAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAATRLGGEVSCLVAGTKCDKVAQDLCKVAGIAK
VLVAQHDVYKGLLPEELTPLILATQKQFNHYTHICAGASAFGKNLLPRVAAKLEVAPISDIIAIKSPDTFVRTIYA
GNALCTVKCDEKVKVFSVRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLTKSDRPELTGAKVVVSGGRGL
KSGENFKLLYDLADQLHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAIN
KDPEAPIFQVADYGIVADLFKVPPEMTEILKKK

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FIGURE 4269

GCAGCCGGCCCCGGGCCCCGCCAGCCTCCCTCCTCGCGTCCCTCGGTGTCTCCGCGGGCCGGCGCGATGCGGCT
GGGCCCCGAGGACCGCGGCGTTGGGGCTGCTGCTGCTGTGCGCCGCCGCGGCGCGCCGGCAAGGCCGAGGAGCT
GCACTACCCGCTGGGCGAGCGCCGCGAGCGACTACGACC GCGAGGCGCTGCTGGGCGTCCAGGAAGATGTGGATGA
ATATGTTAAACTCGGCCACGAAGAGCAGCAAAAAGACTGCAGGCGATCATAAAGAAAATCGACTTGGACTXCAG
ATGGCITTTCTCACTGAAAGTGAAGTCACTCAGTTCATGGATTGAGATGTCTTTTAAGCATTATGCTATGCAAGAAGCAA
AACAAACAGTTTGTGGAATATGATAAAAAACAGTGATGATACTGTGACTTGGGATGAATATAACATTGAGATGTATG
ATCGTGTGATTGACTTTGATGAGAACACTGCTCTGGATGATGCAGAAGAGGAGTCCTTTAGGAAGCTTCACTTAA
AGGACAAGAAGCGATTTGAAAAAGCTAACAGGATTGAGGTCCCGGTTTGAGTCTTGAAGAATTTATTGCTTTTG
AGCATCCTGAAGAAGTTGATTATATGACGGAATTTGTCACTTCAAGAAGCTTTAGAAGAACATGACAAAAATGGTG
ATGGATTTGTTAGTTTGAAGAATTTCTTGGTGATTACAGGTGGGATCCAAGTCAAATGAAGATCCAGAATGGA
TACTTGTGAGAAAGACAGATTGCTGAATGATTATGACAAAGATAACGATGGCAGGCTTGATCCCCAAGAGCTGT
TACCTTGGGTAGTACCTAATAATCAGGGCATTGCACAAGAGGAGGCGCTTCATCTAATTGATGAAATGGATTTGA
ATGGTGACAAAAAGCTCTCTGAAGAAGAGATTCTGGAAAACCCGACTTGTTTCTCACCAGTGAAGCCACAGATT
ATGGCAGACAGCTCCATGATGACTATTTCTATCATGATGAGCTTTAATCTCTGAGCCTGTCTCAGTAGAGTACTG
GCTCCTTTTATAATTTGTTACCAGCTTTACTTTTGTGATAAAATATTGATGTTGTATTTTACACTCTTAAGTCTT
AACCACAGTCAGAAATTATCTTAATGTAGATTATAATTTGGTCTTTTAGGAAAAAAAAAACAAAAATCTGATATTT
ATTTCAAAATGTATTGAAGCAACAAAATATTAATATTGTGCCATATGACAACAAAGTCTTTCCTAAATACTCCAT
CTGTTTAGTACTGTATTGTGGAATATTTGAGTTCTATTTCCATACTTGAAAACATGGAGGATTTTAGAGATGCCT
GAACAATATTATTAAAGTAGTATGTGACCGAGCTATAAATTTTGTGTTTTGTTCTAAGTAGATTTAATTTGGGAA
CTGACAGGACAATGTTTTAGGTTTAGCATTGTTGTTTAAAAACCTTTAAAGAAACCTTTAGAAGGACTTAGACCT
CACATATTAATGTTGAGAAGTTCTGCTTAATTTTAAATGGTTTCTATAAAGGGTTTTATTGTATGAAATAGAAC
TTTATATTTTGCATATGTATAGATAGTAATTATTTAATGTATAACTATAGCATTATGGTGAGTGGAATTTGA
CATTGTCCAAACCTTTTTCATTTTGTAGTGATTAAAAATGAAATGTCCTTTGTA

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FIGURE 4270

GAGCCCGTCTTCCGACGTGCAGCCTGGCAGTGCAGTGAGCTGTCTGGCCTTTTGTCTTGATCCTTGGTTAAGGA
AATGACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG
GACGAACAAGAAGGAAACTCTGAGACAGTGGTCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCG
TGATGAGAGGCTGGACCTACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC
CCTGCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATTCCCAGTATCTGGCCACAGGAAC
TCATGTCGGGAAAGTGAAACATTTTTGGTGTGGAAAGTGGGAAAAAGGAATATTCTTTGGACACGAGAGGAAAATT
CATTCTTAGTATTGCATATAGTCCCTGATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT
TGATATTGCAACTGGAAACTTCTGCATACCCTGGAAGGCCATGCCATGCCCATTCGCTCCTTGACCTTTTCCCC
GGACTCCCAGCTCCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGTACAACATGCCAATTTGGC
TGGCACGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTCTGATGACACTCACTTGTTCAG
TTCGTCTGACAAAAGTGTAAAAGTTTGGGATGTTGGAACGAGGACTTGTGTTACACCTTCTTTGATCACCAGGA
TCAGGTCTGGGGAGTAAATACAATGGAATGGTTCAAAAATTGTGTCTGTTGGAGATGACCAGGAAATTCACAT
CTATGATTGTCCAATTTAAACATCAAAGTCTCCAGGCTTATGCTGCAAAGAGAATGTACGGATTGATCATGACAT
TCCTTACCTTCTTAGGCTTGTTTAAAAGAAATATAGCATTTATTGTAGCAAAGACTTAAATTTGTAGATACAAT
ATGAATCTTTTCATGTTTTATTGGAAATGCTGTTACACTTTAACATAAAGCTTTCTTAATGCAAAAAAAAAAA
AAAAA

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FIGURE 4271

MTNQYGILFKQEQAHDDAIWSVÅWG TNKKENSETVVTGSLDDLKVKWKWRDERLDLQWSLEGHQLGVVSVDISHT
LP IAASSSLDAHIRLWDLENGKQIKSIDAGPVDATLAFSPDSQYLATGTHVGKVNIFGVESGKKEYSLDTRGKF
ILSIAYSPDGKYLASGAIDGIINIFDIATGKLLHTLEGHAMP IRS LTFSPDSQLLV TASDDGYIKIYDVQHANLA
GTL SGHASWVLNVAFCPDDTHFVSSSSDKSVKVWDVGTRITCVHTFFDHQDQVWG VKYNGNGSKIVSVGDDQEIH I
YDCPI

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FIGURE 4272

GTGCAGGGACTTCACAGCCCACACGGGCTACGAGGTGCTGCTGCAGCGGCTTCTGGATGGCAGGAAGATGTGCAA
AGACATGGAGGAGCTACTGAGGCAGAGGGCCCAGGCGGAGGAGCGGTACGGGAAGGAGCTGGTGCAGATCGCACG
GAAGGCAGGTGGCCAGACGGAGATCAACTCCCTGAGGGCCTCCTTTGACTCCTTGAAGCAGCAAATGGAGAATGT
GGGCAGCTCACACATCCAGCTGGCCCTGACCCTGCGTGAGGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCA
GAAGGAGCAGAGGAAGAAGTATGAGGCCGTCATGGACCGGGTCCAGAAGAGCAAGCTGTGCTCTACAAGAAGGC
CATGGAGTCCAAGAAGACATACGAGCAGAAGTGCCGGGACGCGGACGACGCGGAGCAGGCCTTCGAGCGCATTAG
CGCCAACGGCCACCAGAAGCAGGTGGAGAAGAGTCAGAACAAAGCCAGGCAGTGCAAGGACTCGGCCACCGAGGC
AGAGCGGGTATACAGGCAGAGCATTGCGCAGCTGGAGAAGGTCCGGGCTGAGTGGGAGCAGGAGCACCGGACCAC
CTGTGAGGCCTTTTCAGCTGCAAGAGTTTGACCGGCTGACCATTCTCCGCAACGCCCTGTGGGTGCACAGCAACCA
GCTCTCCATGCAGTGTGTCAAGGATGATGAGCTCTACGAGGAAGTGCGGCTGACGCTGGAAGGCTGCAGCATAGA
CGCCGACATCGACAGTTTCATCCAGGCCAAGAGCACGGGCACAGAGCCCCCGCTCCGGTGCCCTACCAGAACTA
TTACGATCGGGAGGTCACCCCGCTGACCAGCAGCCCTGGCATAACAGCCGTCCTGCGGCATGATAAAGAGGTTCTC
TGGACTGCTGCACGGAAGTCCCAAGACCACTTCGTTGGCAGCTTCTGCTGCGTCCACAGAGACCCTGACCCCCAC
CCCCGAGCGGAATGAGGGTGTCTACACAGCCATCGCAGTGCAGGAGATACAGGGAAACCGGCCTCACCAGCCCA
GGAGTACCGGGCGCTCTACGATTATACAGCGCAGAACCCAGATGAGCTGGACCTGTCCGCGGGAGACATCCTGGA
GGTGATCCTGGAAGGGGAGGATGGCTGGTGGACTGTGGAGAGGAACGGGCAGCGTGGCTTCGTCCCTGGTTCTTA
CCTGGAGAAGCTTTGAGGAAGGGCCAGGAGCCCCCTTCGGACCTGCCCTGCCAGTGGAGCCAGCAGTGCCCCCAGC
ACTGTCCCCACCTTGCTAGGGCCCAGAACCAAGCGTCCCCCAGCCCCGAGAGGGAGCCTGTCGTCTCCCAGGGAA
TAAAGGAGTGCGTTCTGTT

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FIGURE 4273

GTTGCCAGGGAGCGGCGGGAGCCCTGAGGGGACTGCGGCGGCTGCGCGGAGGAGCGAGGCGCTTGCTGGGGTC
GGGGCTGCGCGACGGCGCAGGGGCTGCGGGGAGCGCCGCGCAGGCCGTGCAGTTCCTAGCGAGGAGGCGCCGCCG
CCATTGCCGCTCTCTCGGTGAGCGCAGCCCCGCTCTCCGGGCGGGGCCTTCGCGGGCCACCGCGCCATGGGCCA
GTGCGGCATCACCTCCTCCAAGACCGTGCTGGTCTTTCTCAACCTCATCTTCTGGGGGGCAGCTGGCATTATG
CTATGTGGGAGCCTATGTCTTCATCACTTATGATGACTATGACCACCTTCTTGAAGATGTGTACACGCTCATCCC
TGCTGTAGTGATCATAGCTGTAGGAGCCCTGCTTTTCATCATTGGGCTAATTGGCTGCTGTGCCACAATCCGGGA
AAGTCGCTGTGGACTTGCCACGTTTGTATCATCCTGCTCTTGGTTTTTGTACAGAAGTTGTTGTAGTGGTTTT
GGGATATGTTTACAGAGCAAAGGTGGAAAATGAGGTTGATCGCAGCATTAGAAAAGTGTATAAGACCTACAATGG
AACCAACCCTGATGCTGCTAGCCGGGCTATTGATTATGTACAGAGACAGCTGCATTGTTGTGGAATTCACAATA
CTCAGACTGGGAAAATACAGATTGGTTCAAAGAAACCAAAAACAGAGTGTCCCTCTTAGCTGCTGCAGAGAGAC
TGCCAGCAATTGTAATGGCAGCCTGGCCCAACCCTCCGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTTGTGAA
GAAGCTACAAGAAATCATGATGCATGTGATCTGGGCCGCACTGGCATTTCAGCTATTAGCTGCTGGGCATGCT
GTGTGCTTGCATCGTGTGTGTCAGAAGGAGTAGAGATCCTGCTTACGAGCTCCTCATCACTGGCGGAACCTATGC
ATAGTTGACAACTCAAGCCTGAGCTTTTGGTCTTGTCTGATTTGGAAGGTGAATTGAGCAGGTCTGCTGCTGT
TGGCCTCTGGAGTTCATTTAGTTAAAGCACATGTACACTGGTGTGGACAGAGCAGCTTGGCTTTTCATGTGCC
ACCTACTTACCTACTACCTGCGACTTCTTTTTCTTGTCTAGCTGACTCTTCATGCCCTAAGATTTTAAGTA
CGATGGTGAACGTTCTAATTTAGAACCAATTGCGAGTCATGTAGTGTGGTAGAATTAAAGGAGGACACGAGCCT
GCTTCTGTTACCTCCAAGTGGTAACAGGACTGATGCCGAAATGTCACCAGGTCCTTTCAGTCTTCACAGTGGAGA
ACTCTTGGCCAAAGGTTTTTGGGGGGAGGAGGAGAAACCAGCTTCTGGTTAAGGTAAACACCAGATGGTGCCC
CTCATTGGTGTCTTTTAAAAAATATTTACTGTAGTCCAATAAGATAGCAGCTGTACAAAATGACTAAAATAGAT
TGTAGGATCATATGGCGTATATCTTGGTTCATCTTCAAATCAGAGACTGAGCTTTGAACTAGTGGTTTTTAAT
CAAAGTTGGCTTTATAGGAGGAGTATAATGTATGCACTACTGTTTTAAAGAATTAGTGTGAGTGTGTTTTGT
TGAATGAGCCCATTCATGGTAAGTCTTAAGCTTGTGGAAATAATGTACCCATGTAGACTAGCAAAATAGTATGT
AGATGTGATCTCAGTTGTAATAGAAAAATCTAATTCATAAACTCTGTATCAGCCCCAACATATTATTTTCA
TTATTTGGGGGATATTTTCAGTTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 4274

MGQCGITSSKTVLVFLNLIFWGAAGILCYVGAYVFITYDDYDHHFFEDVYTLIPAVVIIAVGALLFIIGLIGCCAT
IRESRCGLATFVIIILLVFTVVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDAASRAIDYVQRQLHCCGI
HNYSWENTDWFKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKLQEIMMHVIWAALAFAAIQLL
GMLCACIVLCRRSRDPAYELLITGGTYA

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FIGURE 4275

CTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGTCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGAAAGAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTTCAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTGGATGGTATCTATGTCTCTGAAAAAGGAACTGTTTCAGCAGGCTGATG
AATAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTAA
TGATGCAATAAAAGACCTATTGATTTGGA

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FIGURE 4276

MKTIILSNQTVDIPENVDTILKGRTVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRVDKWWGNRKELATVRTICS
HVQNMIKGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGTVQQADE

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FIGURE 4278

GCGCAAGAGCCAAGCCGCCAGCGCTGCGATGTGGGCCACGCTGCCGCTGCTCTGCGCCGGGGCCTGGCTCCTGGG
AGTCCCCGTCTGCGGTGCCGCCGAACCTGTGCGTGAACCTCCTTAGAGAAGTTTCACTTCAAGTCATGGATGTCTAA
GCACCGTAAGACCTACAGTACGGAGGAGTACCACCACAGGCTGCAGACGTTTGCCAGCAACTGGAGGAAGATAAA
CGCCCAACAATGGGAACACACATTTAAAATGGCACTGAACCAATTTTCAGACATGAGCTTTGCTGAAATAAA
ACACAAGTATCTCTGGTCAGAGCCTCAGAATTGCTCAGCCACCAAAAGTAACTACCTTCGAGGTACTGGTCCCTA
CCCACCTTCCGTGGACTGGCGGAAAAAGGAAATTTTGTCTCACCTGTGAAAAATCAGGGTGCCCTGCGGCAGTTG
CTGGACTTTCTCCACCCTGGGGCCCTGGAGTCTGCGATCGCCATCGCAACCGGAAAGATGCTGTCTTGGCGGA
ACAGCAGCTGGTGGACTGCGCCAGGACTTCAATAATCAGGCTGCCAAGGGGGTCTCCCCAGCCAGGCTTTTGA
GTATATCCTGTACAACAAGGGGATCATGGGTGAAGACACCTACCCCTACCAGGGCAAGGATGGTTATTGCAAGTT
CCAACCTGGAAAGGCCATCGGCTTTGTCAAGGATGTAGCCAACATCACAATCTATGACGAGGAAGCGATGGTGGA
GGCTGTGGCCCTCTACAACCTGTGAGCTTTGCCTTTGAGGTGACTCAGGACTTCATGATGTATAGAACCGGCAT
CTACTCCAGTACTTCTGCCATAAACTCCAGATAAAGTAAACCATGCAGTACTGGCTGTGGGTATGGAGAAAA
AAATGGGATCCCTTACTGGATCGTGAAAACTCTTGGGGTCCCCAGTGGGGAATGAACGGGTACTTCTCATCGA
GCGCGGAAAGAACATGTGTGGCTGGCTGCCTGCGCCTCCTACCCCATCCCTCTGGTGTGAGCCGTGGCAGCCGC
AGCGCAGACTGGCGGAGAAGGAGAGGAACGGGCAGCCTGGGCCCTGGGTGGAAATCCTGCCCTGGAGGAAGTTGTG
GGGAGATCCACTGGGACCCCCAACATTCTGCCCTCACCTCTGTGCCCAGCCTGGAAACCTACAGACAAGGAGGAG
TTCCACCATGAGCTCACCCGTGTCTATGACGCAAAGATCACCAGCCATGTGCCTTAGTGTCTTCTTAACAGACT
CAAACCACATGGACCACGAATATTCTTTCTGTCCAGAAGGGCTACTTTCCACATATAGAGCTCCAGGGACTGTCT
TTTCTGTATTGCTGTTCAATAAACATTGAGTGAGCACCTCC

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FIGURE 4279

GGCAAATCCGGCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCTCTGACGCGGAGTTGGGTGGGGTAGAGAG
TAGGGGGCGGTAGTCGGGGGTGGTGGGAGAAGGAGGAGGCGCGGAATCACTTATAAAATGGCGCCGAAGCAGGACC
CGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAA
AGGTTGCCATAAAGGACAAACAAGTGAATACCTTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAATGGG
TTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGG
AGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTG
AAGTGAACGAAAAAGAACAACAGAAACACCTGGAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGC
CTCCTCGGAAGAAAAGGGCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTA
AAGTAAAGATTCCTGAAGAGCTAAAACCGTGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCT
TTTATCTTCCTGCCAAGAAGATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAAACA
CAGATAATAAGGAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAGAATACTTCAACGTAATGTTGGGTACCC
AGCTACTCTATAAATTTGAGAGACCACAGTATGCTGAAATTCCTGCAGATCATCCCGATGCACCCATGTCCCAGG
TGTATGGAGCGCCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCTTATACACCTCTGGATGAGA
AGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTCA
GTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATG
TTTGGATCTCCGTAAACACATTTTGTTCCTTAGTCTATCTTGTACAAACGATGTGCTTTGAAGATGTTAGTGT
ATAACAATTGATGTTTGTCTTCTGTTTGAATTTTAAACAGAGAAAAAATAAAGGGGGTAATAGCTCCTTTTTTCT
TCTTTCTTTTTTTTTTTTCAATTCAAAATTGCTGCCAGTGTCTTCAATGATGGACAACAGAGGGATATGCTGTAGA
GTGTTTTATTGCCTAGTTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCTTTGACACTACGCACCTTTTAT
AATACATGTTAATGCTATATGACAAAATGCTCTGATTCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAA
CACACTCATCCATTTGTGCTTTTGTCTTTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCA
TGTGTTACTTAGGCATTTTATCTTGGCTCAAATTGTTGAAGAATGGTGGCTTGTTCATGGTTTTTGTATTTGT
GTCTAATGCACGTTTTAACATGATAGACGAATGCATTGTGTAGCTAGTTTTCTGGAAAAGTCAATCTTTTAGGA
ATTGTTTTTCAGATCTTCAATAAATTTTTCTTTAAATTC

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FIGURE 4280

MARKQDPKPKFQEGERVLCFHGPLL YEAKCVKVAIKDKQVKYFIHYS GWNKNWDEWVPESRVLKYVDTNLQKQRE
LQKANQE QYAEGKMRGAAPGKKTSG LQQKNVEVTKKNKQKTPGNGDGGSTSETPQPPRKKRARVDPTVENEETF
MNRVEVKVKIPEELKPWLVD DDLITRQKQLFYLP AKNVDSILEDYANYKKS RGNTDNKEYAVNEVVAGIKEYF
NVMLGTQLLYKFERPQYAEILADHPDAPMSQVYGAPHLRLFRIGAMLAYTPLDEKSLALLLN YLHDFLKYLA K
NSATLFSASDYE VAPPEYHRKAV

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FIGURE 4281

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTGCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTATA
ATGTCCCCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAAAGCTGAGATAGTTTCCTGAAACACATGAAGGAAAATGATCAGAAAA
AGAAGGAAGCCAAATAGAAAGGTACCTGGGTTCAACAGAAGCACCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGCGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAACAGGTGTTAATAA
ATAAATAAAAGACCTCTGGGCTGT

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FIGURE 4282

CTTTCCTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGTCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTGTAGTCATGTACAGAACATGATCAAGGGTGTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCCGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTGAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTGGATGGTATCTATGTCTCTGAAAAAGAAGATGCCAGATGACACT

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FIGURE 4283

CCTCTTTTACCAAGGACCCGCCAACAATGGGCCGCGTTTCGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCAT
AGAAAAGTACTACACGCGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCGAGGAGATCGCCATTATCCC
CAGCAAAAAGCTCCGCAACAAGATAGCAGGTTATGTCACGCATCTGATGAAGCGAATTCAGAGAGGCCAGTAAG
AGGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCTGAGGTCTCAGCCTTGGA
TCAGGAGATTATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCT
TCAGGTCACTCAGCCTACAGTTGGGATGAATTTCAAACGCCTCGGGGACCTGTTTGAATTTTTTCTGTAGTGCT
GTATTATTTTCAATAAATCTGGGACAACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4284

MGRVRIKTVKKAARVIEKYYTRLGNDFHTNKRVCCEIAIIPSKKLRNKIAGYVTHLMKRIQRGPVRGISIKLQE
EERERRDNYVPEVSALDQEIIIEVDPTKEMLKLLDFGSLSNLQVTQPTVGMNFKTPRGPV.

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FIGURE 4285

CAGTGGCAGCATGGAACCTGCATTTCATAGAGGAGATCTTCTCTTTCTAACAAATCGAGTTGAAGATCCCATACG
AGTGGGAGAAATTGTTGTTTTTAGGATAGAAGGAAGAGAGATTCTATAGTTCACCGAGTCTTGAAGATTCATGA
AAAGCAAAATGGGCATATCAAGTTTTTGACCAAAGGAGATAATAATGCGGTTGATGACCGAGGCCTCTATAAACA
AGGACAACATTGGCTAGAGAAAAAGATGTTGTGGGGAGAGCCAGGGGATTTGTTTCCTTATATTGGAATTGTGAC
GATCCTCATGAATGACTATCCTAAATTTAAGTATGCAGTTCTCTTTTTGCTGGGTTTATTTCGTGCTGGTTCATCG
TGAGTAAGAAGCCTGCCTTGCTGTTCTGCGGAAGATGCCATAGTTTTCGTTACTGGATGTTTGGAGTAGATACTG
GTCTGIGATTGGTGAATGGAGAACACACGTGTTGGTGCTTCTGGGTAGCACTGGTTTGCATTAGTTTATGTTTC
CATGCCAGAGTTTGTGTGGGCGGGCGCATGTGCACCACAGAGTGCCTCGAGGGGACTTTCAGTCACAGGATTTCA
ATAATTGTCAATTGTCACACTTTCAAATTTTTGTACATCAGTGAATTTTTTATATTAAAAGGTTGAGCCAAAGCC
CCCAGTGTGTTGATTTTGAAGCCAAGCTTCACTTCTAAAAGTGCCTACAGAGACTTGTAATGAAAATGCAGCTCT
GCACGAGTTTGAAACCGTCATACCTCCTTCTATTAGGAATGGCATATACIGAGGTGGTCGTAAGTCTTAACCTCT
AAAATTTTAAATAAAAAGACTTTGCACATTG

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FIGURE 4286

AATCCTTGCCTTGTAAATCGTACGGGGCTGGGACATGGGAGCTGGGCCTGGAGCTTGCCTGGCGGGCGGATGGG
TGTGGGTGGAGGCACGTTGGGGATCCTGGTGCAGAGTGGGCCAGCTGTGGCCTCGGGGCTCGCCACCGTGGAGGA
CTCCGCCTGGGCCTAGGCCCCCATCTCTAGGAAATGGCTCCTTCCTGCGTGCGCGCTTGTGAGATTACTAGTAA
GAGCCGCGCTTGTGAAGACGCAGTGCCAGTTAGTTTGCGCCAGCCTCTGAGTTCAGCTCAGAACACAGATGATC
TCATTGATTCCCTACGTCAACCTTGGGAAATCTGGGTACCTGGGACGTCCACACATGAGGACCGAGGCTCAGGG
ACATCAAGGGACTGGCCTGGTCCCAGAAACAGGGAGTAAAATGGGAAGTAACTCAGTCCCACGTCTGCCTGACT
CCAGAGTTTGGGCCACTGAACCATGCGGCTGCCATCTTGGAGTTCTTTGAGCTGTGAAGTGCTGTGCATCGTGTG
ATTCTGTGTCCCTTTTGTGTCAGGTACCAGGATTTCTATGCATTGACCTGTCAGGAGCCACTCGAGTCCCTTGAAT
GGATTGATGACAAAGGAGTCTTTGTGCTGGCTATGAAAGCCTGAAAAAGAATGAAATTCTTCATCTGAAATTAC
CTCTCAGACTTTCTGTAAAGGAAAAACAAGGGCTTATTCCCAGAAAGAGATTTCAAAGTGCGCCATGGAGGATTTT
CAGACAGGTCTATCTTTGATCTAAAGCATGTGCCACATACCAGATTGCTGGTTACCACTGGCCTTCCAGGTTGTT
ATCTGCAGGTGTGGCAGGTTGCAGAGGACAGTGGTGAGTGAATTTGACTTGATGGGGTTTGGGGTTCTAGGAAAG
TGTGACTCATACACCCCTGTCCCCTAATCTGAGCCAGTTAAGAAGGAGACTCAGGCTGGGGACAGTCTCATGCCT
GTAATTGTAGCACTTTGGGAGGCTGAGCTGGGTGGATCACTTGAATTCAGGAGTTGAAGACCACCTTGTACAACA
TGGTGAAACCTGTCTCTATTAAAAATACAAAAAATTAGCCGGGCATGGTGGTAGGCACCTGTAATCCCTGCTACT
GGGGAGACTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTACAGTGAGCCGAGATCATGCCACTGCAC
TCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCCAAAAAAGTAGTAGTAGACTCAGAGCCAGGTGGGAAT
TAATCTACTTTAATGC

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FIGURE 4287

CCGGAAGAGACACGCGGGGCTTCAGGCTGCTGCCCCATTGGAAGATTACTCCCCAGGCTTCCCTTGCCCCAAGCA
GTGAGCTGACTGGAATGGTACCCCCGGGAGGCCCTGAGTCTGCTCAGTGCCTGTGCCCTTCCCTCACCATCCCAA
ATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGGTTTCATGGCCCCGAAGGCCT
TGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCTTCCCCACTGCCACCCCTTTTCGGGGCAG
CGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGGCCCATGCAGCAGAA
GGCCTGCTCCCCGGGAAAGCCTCAGGGCCCTTGCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGCACGG
GACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCCTCTATGACAAGT
ACATCAGGCCTGAGATGCCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCACTCGGCAGCACATGCGCAAGG
CTGTCCCTTCCAGGTGGCCAGAAAGAGATCCTTAAGCTCCTGAAGGGCAAGGTGGTGGTGGGGCAGCGCTGC
ACAACGACTTCCAGGCGCTCAAGTATGTCCACCCTCGGAGCCAGACCCGGGATACGACCTATGTCCCAAACCTTCC
TCAGCGAGCCCGGCTCCACACCCGGGCCCGGGTCTCTCTAAAGGACCTGGCCCTGCAGCTGCTGCACAAGAAGA
TCCAGGTGGGCCAGCAGGGGCACTCATCAGTAGAAGATGCCACGACAGCCATGGAGCTCTACCGGCTGGTGGAGG
TGCAGTGGGAACAGCAGGAGGCCCGCAGCCTCTGGACCTGCCCCGAGGACAGAGAACCTGACAGCAGCACAGACA
TGGAACAGTACATGGAGGACCATCCACCCAGTACTGGGCTCTTAAGCAAAAGTCTGAGAAACAAGACAGTGGTTT
GAATTCCTGGGGCCTTTGTGTAGGATTGTGCCTGACCTTTATTTATTTATTAACAGCAGGGCCACTCGTCTAGGGC
AGTGGAGTCTGCGTGTCTCCTGGGGCTGGGGCAGGGCATTGGCAGTTACGCAGTGGCCCTGAACCTGGTCTGGTG
CCCCCGAACCTGGTCTGATGCCCCCTCAGCTCTTTGACAATCACTGTGGCTGTGGGTTTCTCCTATTCTAAA
AATGTTCTCTTTCTTCTAAGTGACAGTTTTGAGTATTGGATAACCAAGAGCTCAGGTCACACAGACCTTGGAG
CCCCATCTTTGCTTGCACTTAGCTTTGAGATACTAAGCAAGCGAGGGACTTCACTCTTGAGGCTGTTTTTTCCT
CATCTGTAAAGTGGGGATAGTGGTACGGCCTACCTCATAGGGTTGTAATGAGCACTAAATGTGAAGTGCTTGGCA
CAGTGCCTGGCACATGGTGAGCCACAGCTACTGTGAGTTTCTGTTTATCCCCCTTTTTTTTAAAGCCCATTG
TTTATTCTTTGAGAATTTGTTGTAACCTTCTTCAGGATAACACCTGAGTCCACAGGCTGAGCAGCTGTGGCCAGA
CAGAACTGCTCCGGCTTGGCTGTTCAGCAGGTGGGGCTGGCCCTCGGTGAGGGCACAGCAGCAAGGTTACCGG
ATATCCGTGTGTCTTGTCTGTGGCCACCAGGCACAGGTTTGGCTTCCGGTCAGTGTCCCGACACTGTGCGGGAGG
TGACAACAGAGCAAAGCAGCGCAGGGGTCAGGGAGGTACAGACACTGCTGAAATCACACTACCCACCCCTCAGCT
GAAGCCCCACGTTCCACAACTTGGGGTCATAGATTGTCCAGTCACTGGCTCCCTCCCTGTCAGCACAGCACAGA
GGAAGGGGCTAACTGAATCTTTTACCCTTCTGGCCTGGCTCCAGAACTTTGTTCTAGATTCTTAAAGTCGGT
AGCTGATGTCAAACCTCAATTGAGCAGTAGCTTTGATCCCTTGGTCTGGGGGTCGAAGGAAGATGGTGTGTTATC
AGCGGGGAAATGTACTATTTAAGATCAGCTTTGTTGTAAAACCATTTGTTCTAGAATAAACTCAATTGGAACG
TG

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FIGURE 4288

MVPREAPESAQCLCPSLTIPNAKDVLKRHRKRRSRQHQRFMARKALLQEQGLLSMPPEPGSSPLPTPFGAATATE
AASSGKQCLRAGSGSAPCSRFPAPGKASGPLPSKCVAIDCEMVGTGPRGRVSELARCSIVSYHGNVLYDKYIRPE
MPIADYRTRWSGITRQHMRKAVPFQVAQKEILKLLKGKVVVGHALHNDFQALKYVHPRSQTRDTTYVPNFLSEPG
LHTRARVSLKDLALQLLHKKIQVGQGHGSSVEDATTAMELYRLVEVQWEQQEARS�WTCPEDREPDSSDMEQYM
EDQYWPDDL AHGSRGGAREAQDRRN

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FIGURE 4289

CCAAATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGGTTTCATGGCCCGGAAG
GCCTTGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCCTCCCCACTGCCCCACCCCTTTCGGG
GCAGCGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCAGC
AGAAGGCCTGCTCCCGGGAAAGCCTCAGGGCCCTTGCCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGC
ACGGGACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCCTCTATGAC
AAGTACATCAGGCCTGAGATGCCCATCGCTGACTACCTCTTCTCCACTCATTGGGTTTCAGAATAAACATGTCC
TGAAGTTAAAGAGGAGTTAAGTCCTAAAGGAGGCATTCTTCCCCACCTCCCTGACCTGGAACCTCTGGCTACAGC
CATTGTAGGAACTCCGTGCCTGGCCTGTCAGCTCCCTGCTAGGCTACAGTGGAATAGCAGAGCCCCACAGGCTTCT
CGTGGGGAGTTGGCTCCTTAACATTTCTTGGCAACAGAAAGCCCCAGGCACAGCTCAGGGAGGAGGGAAGGCAGG
TAAGCTTTGGACGAGAACTGGCATATTTATTTTGACCCAAATCAGGGATTTCGCCAGTCCACCCAGTACTGGGCT
CTTAAGCAAAAGTCTGAGAAAC

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FIGURE 4290

AGTCCCGGAAGTCTAGAACGAACCATTCGCATATGGAGGGGGTGACCCACCATCTCAGAACATTAAAAAGGGA
AAGAATCCCCTGGTGAACTACAGTGAAAGTCTTATTGAGCATTTAAATGGAAATAAAAAATTTCAGTGGACCTAA
TGAAGAGTAGATGACTTTCCCTTCTGTCCCTCCCCGACAGGCACTCATGGTACCGGCGCCGGCGCAGCTGTGAC
TGTCGCTGCAGACGGAACTGACTGGGGTCAATTCAAGTCATGCAGGCTGTGAGAAACGCGGGGTGCGGGTTCCT
GCGGTCTGGACTTGCCCCAGACAGCCGGCAGGGTCTGTGGCCAGAACGCCGGCCGGGACCATCTGCACAGGCGC
TCGACAGCTCCAAGACGCTGCGGCCAAGCAGAAAGTTGAACAGAACGCCGGCTCCCAGCCACACCAAGTTCAGCAT
TTACCTCCCATTCAGGAGAGGAGAGCTCTCTGAGGTGGGCAGGAAAGAAATTTGAGGAGATCCCAATTGCACA
CATTAAAGCATCCCAACAACACACAGATCCAGGTAGTCTCTGCTAGTAATGAGCCCCTTGCCTTTGCTTCCTG
TGGCACAGAGGGATTTCCGAATGCCAAGAAGGGCACAGGCATCGCAGCACAGACAGCAGGCATAGCCCGAGCGGC
GAGAGCTAAACAAAAGGGCGTGATCCACATCCGAGTTGTGGTGAAAGGCCTGGGGCCAGGACGCTTGTCTGCCAT
GCACGGACTGATCATGGGCGGCCTGGAAGTGATCTCAATCACAGACAACACCCCAATCCACACAACGGCTGCCG
CCCCAGGAAGGCTCGGAAGCTGTGATGGGAAGGAGGCCTGCACTTGGACCTGACCTCAAGCCTCAGCTCCAGTGG
GACCTTGTAATATGCTCCCTGTGAGAGCTCTCCAGAATATGCTTGTGGAGATCCTTCAGGCAGTAAGGGAGAGT
TTTGCTCCTTACACAGTGGCCTTTGCTTGCACCTCCAGCTGGAGATGGGTGTGCCCCAGAAGTAAGCTTTGCAT
CTCTTACAAGAGGGGAGCTACAGGGGCAGCCGTGGCCTAGGCCCAAACCTCTGCTCTGAGAAAATAAATATCTGTA
CCACCTGTCAA

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FIGURE 4291

MQAVRNAGSRFLRSWTPQTAGR VVARTPAGTICTGARQLQDAAAKQKVEQNAAPSHTKFSIYPPIPGEESLRW
AGKKFEEIPIAHIKASHNNTQIQVVSASNEPLAFASCGTEGFRNAKKGTGIAAQTAGIAAAARAKQKGVHIRVV
VKGLGPGRLSAMHGLIMGGLEVISITDNTPIPHNGCRPRKARKL

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FIGURE 4292

TAATTTTGGCCAGTCTGCCTGTTGTGGGGCTCCTCCCCTTTGGGGATATAAGCCCCGGCCTGGGGCTGCTCCGTT
CTCTGCCTGGCCTGAGGCTCCCTGAGCCGCTCCCCACCATCACCATGGCCAAGGGCTTCTATATTTCCAAGTCC
CTGGGCATCCTGGGGATCCTCCTGGGCGTGGCAGCCGTGTGCACAATCATCGCACTGTCAGTGGTGTACTCCCAG
GAGAAGAAACAAGAACGCCAACAGCTCCCCCGTGGCCTCCACCACCCCGTCCGCTCAGCCACCACCAACCCCGCC
TCGGCCACCACCTTGGACCAAAAGTAAAGCGTGAATCGTTACCGCCTCCCCAACACGCTGAAACCCGATTCTCTAC
CGGGTGACGCTGAGACCGTACCTCACCCCAATGACAGGGGCTGTACGTTTTTAAGGGCTCCAGCACCGTCCGT
TTCACCTGCAAGGAGGCCACTGACGTATCATCATCCACAGCAAGAAGCTCAACTACACCCTCAGCCAGGGCACA
GGGTGGTCTGCGTGGTGTGGGAGGCTCCAGCCCCCGACATTGACAAGACTGAGCTGGTGGAGCCACCAGT
ACCTGGTGGTGCACCTCAAGGGCTCCCTGGTGAAGGACAGCCAGTATGAGATGGACAGCGAGTTTCAGGGGGAGT
TGGCAGATGACCTGGCGGGCTTCTACCGCAGCGAGTACATGGAGGGCAATGTCAGAAAGGTGGTGGCCACTACAC
AGATGCAGGCTGCAGATGCCCCGAAGTCCTTCCCATGCTTCGATGAGCCGGCCATGAAGGCCGAGTTCAACATCA
CGCTTATCCACCCCAAGGACCTGACAGCCCTGTCCAACATGCTTCCCAAAGGTCCCAGCACCCCACTTCCAGAAG
ACCCAACTGGAATGTCACTGAGTTCCACACCACGCCCAAGATGTCCACGTACTTGTGGCCTTCAATTGTCACTG
AGTTCGACTACGTGGAGAAGCAGGCATCCAATGGTGTCTTGATCCGGATCTGGGCCCCGGCCAGTGCCATTGCGG
CGGGCCACGGCGATTATGCCCTGAACGTGACGGGCCCCATCCTTAACCTTCTTTGCTGGTCAATTATGACACACCT
ACCCACTCCCAAAATCAGACCAGATTGGCCTGCCAGACTTCAACGCCGGCGCCATGGAGAAGTGGGGACTGGTGA
CCTACCGGGAGAAGTCCCTGCTGTTGACCCCCCTGTCTCTCCAGCAGCAACAAGGAGCGGGTGGTCACTGTGA
TTGCTCATGAGCTGGCCCCACAGTGGTTCGGGAACCTGGTGACCATAGAGTGGTGAATGACCTGTGGCTGAACG
AGGGCTTCGCCTCCTACGTGGAGTACCTGGGTGCTGACTATGCGGAGCCACCTGGAAGTGAAGAGCTCATGG
TGCTGAATGATGTGTACCGGTGATGGCAGTGGATGCACTGGCCTCCTCCACCCGCTGTCCACACCCGCTTCGG
AGATCAACACGCCGGCCAGATCAGTGAGCTGTTTGACGCCATCTCCTACAGCAAGGGCGCCTCAGTCTCTCAGGA
TGCTCTCCAGCTTCTGTCCGAGGACGTATTCAAGCAGGGCCTGGCGTCTACCTCCACACCTTXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGCTGTGAACAACCGGTCCATCCAATCCCCACCACCG
TGCGGGACATCATGAACCGCTGGACCCTGCAGATGGGCTTCCCGGTATCACGGTGGATACCAGACGGGGACCC
TTTCCCAGGAGCACTTCTCTTGAACCCGATTCCAATGTTACCCGCCCTCAGAATTCAATGGATTGTGCCAT
CACATCCATCAGAGATGGCAGACAGCAGCAGGACTACTGGCTGATAGATGTAAGAGCCAGAACGATCTCTTCAG
CACATCAGGCAATGAGTGGGTCTGTGAACCTCAATGTGACGGGCTATTACCGGTGAAGTACGACGAAGAGAA
CTGGAGGAAGATTCACTCAGCTGCAGAGAGACCACTCGGCCATCCCTGTATCAATCGGGCAGATCATTAA
TGACGCCTTCAACCTGGCCAGTGCCATAAGGTCCCTGTCACTCTGGCGTGAACAACACCCCTCTCTGATTGA
AGAGAGACAGTACATGCCCTGGGAGGCCGCCCTGAGCAGCTGAGCTACTTCAAGCTCATGTTTGACCGCTCCGA
GGTCTATGGCCCCATGAAGAACTACCTGAAGAAGCAGGTACACCCCTCTTCATTCACTTCAGAAATAATACCAA
CAACTGGAGGGAGATCCAGAAAACCTGATGGACCAGTACAGCGAGGTTAATGCCATCAGCACCGCCTGCTCCAA
CGGAGTTCAGAGTGTGAGGAGATGGTCTCTGGCCTTTTCAAGCAGTGGATGGAGAACCCCAATAATAACCCGAT
CCACCCCAACCTGCGGTCCACCGTCTACTGCAACGCTATCGCCAGGGCGGGAGGAGGAGTGGGACTTCGCCTG
GGAGCAGTTCGAAATGCCACACTGGTCAATGAGGCTGACAAGCTCCGGGAGCCCTGGCCTGCAGCAAAGAGTT
GTGGATCCTGAACAGGTACCTGAGCTACACCCCTGAACCCGACTTAATCCGGAAGCAGGACGCCACCTCTACCAT
CATCAGCATTACCAACAACGTCAATTGGGCAAGGTCTGGTCTGGGACTTTGTCCAGAGCAACTGGAAGAAGCTTTT
TAACGATTATGGTGGTGGTCTGTTCTCTTCTCCAACCTCATCCAGGCAGTGACACGACGATTCTCCACCGAGTA
TGAGCTGCAGCAGCTGGAGCAGTTCAAGAAGGACAACGAGGAAACAGGCTTCGGCTCAGGCACCCGGGCCCTGGA
GCAAGCCCTGGAGAAGACGAAAGCCAACATCAAGTGGGTGAAGGAGAACAAGGAGGTGGTGTCTCAGTGGTTTAC
AGAAAACAGCAAAATAGTCCCCAGCCCTGAAGTACCCGGCCCCCATGCAAGGTGCCACATGTGTCCATCCCAG
CGGCTGGTGCAGGGCTCCATTCTGGAGCCCGAGGCACAGTGTCTCCCTCAAGGACAAAGTCTCCAGCCCA
CGTTCTCTCTGCTGTGAGCCAGTCTAGTTCTCTGATGACCCAGGCTGCCTGAGCACCTCCAGCCCTGCCCTC
ATGCCAACCCCGCCCTAGCCCTGGCATGGCACCTGTGCGCCAGTGCCCTGGGGCTGATCTCAGGGAAGCCAGCT
CCAGGGCCAGATGAGCAGAAGCTCTCGATGGACAATGAACGCCTTGCTGGGGGCCGCCCTGTACCTCTTTTAC
CTTTCCCTAAAGACCTAAATCTGAGGAATCAACAGGGCAGCAGATCTGTATATTTTTTTCTAAGAGAAAATGTA
AATAAAGGATTTCTAGATG

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FIGURE 4293

CCAGCGTTAGCCCGCGGCCAGGCAGCCGGGAGGAGCGGCGCGCTCGGACCTCTCCCGCCCTGCTCGTTGCTC
TCCAGCTTGGGATGGCCGGCTACCTGCGGGTCTGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGGCCGGCCTGGG
CGCCGGCGGCCCTGACAGCCCCACCTCGCAAGAGCATCCGCGGCGCCACTATGCCGACAAAAGGATCAAGGTGG
CGAAGCCCGTGGTGGAGATGGATGGTGTGAGATGACCCGTATTATCTGGCAGTTCATCAAGGAGAAGCTCATCC
TGCCCCACGTGGACATCCAGCTAAAGTATTTTGACCTCGGGCTCCCAAACCGTGACCAGACTGATGACCAGGTCA
CCATTGACTCTGCACTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTGCCACCATCACCCCTGATGAGGCCC
GTGTGGAAGAGTTCAAGCTGAAGAAGATGTGGAAGTCCCAATGGAATATCCGGAACATCCTGGGGGGGACTG
TCTTCCGGGAGCCCATCATCTGCAAAAACATCCCACGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTTGCA
GGCACGCCCATGGCGACCAGTACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAAATGGTCTTCA
CCCCAAAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACCTTCCCGCAGGCGGCGTGGGCATGGGCATGT
ACAACACCGACGAGTCCATCTCAGGTTTTGCGCACAGCTGCTTCCAGTATGCCATCCAGAAGAAATGGCCGCTGT
ACATGAGCACCAAGAACACCATACTGAAAGCCTACGATGGGCGTTTCAAGGACATCTTCCAGGAGATCTTTGACA
AGCACTATAAGACCGACTTCGACAAGAATAAGATCTGGTATGAGCACCGGCTCATTGATGACATGGTGGCTCAGG
TCCTCAAGTCTTCGGGTGGCTTTGTGTGGGCCTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCCTGGCCC
AGGGCTTTGGCTCCCTTGGCCTGATGACGTCCGTCTGGTCTGCCCTGATGGGAAGACGATTGAGGCTGAGGCCC
CTCATGGGACCGTCACCCGCCACTATCGGGAGCACCAAGGGCCGGCCACCAGCACCAACCCCATCGCCAGCA
TCTTTGCCTGGACACGTGGCCTGGAGCACCGGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTTTGGCCAGA
TGCTGGAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTGGCGGGCTGCATTACGGCC
TCAGCAATGTGAAGCTGAACGAGCACTTCCTGAACACCATGGACTTCCTCGACACCATCAAGAGCAACCTGGACA
GAGCCCTGGGCAGGCAGTACGGGGAGGCGCCACCCATGGCTGCAGTGGAGGGGCCAGGGCTGAGCCGGCGGGTCC
TCCTGAGCGCGGCAGAGGGTGAGCCTCACAGCCCCTCTCTGGAGGCCTTTCTAGGGGATGTTTTTTTATAAGCCA
GATGTTTTTAAAGCATATGTGTGTTTTCCCTCATGGTGACGTGAGGCAGGAGCAGTGCCTTTTACCTCAGCCAG
TCAGTATGTTTTGCATACTGTAATTTATATTGCCCTTGGAACACATGGTGCCATATTTAGCTACTAAAAAGCTCT
TCACAAAAAAGGATTCCGCG

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FIGURE 4294

MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEHPRRHADKRIKVAKPVVEMDGDDEMTRI IWQFIKEKLILPHV
DIQLKYFDLGLPNRDQTDQVTIDSALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIRNILGGTVFRE
PIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVADRAGTFKMVFTPKDGSVKEWEVYNFPAGGVGMGMNTD
ESISGFAHSCFYAIQKKWPLYMSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWEHRLIDDMVAQVLKS
SGGFVWACKNYDGDVQSDILAQGFGLMTSVLPCPDGKTIEAAHGTVTRHYREHOKGRPTSTNPIASIFAW
TRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCIHGLSNVKLNEHFLNTMDFLDTIKSNLDRALG
RQ

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FIGURE 4295

AGAACCCCGCGGGGTCTGAGCAGCCCAGCGTGCCCATTCAGCGCCCGGTCCCCGAGCATGCCGCGCCCCGC
CTGCTGGCCGCGCTGTGCGGCGCGCTGCTCTGCGCCCCAGCCTCCTCGTCGCCCTGGATATCTGTTCCAAAAC
CCCTGCCACAACGGTGGTTTATGCGAGGAGATTTCCCAAGAAGTGCAGGAGATGTCTTCCCTCGTACACCTGC
ACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGTGTCGAGCCACTGGGCCTGGAGAATGGGAAC
ATTGCCAACTCACAGATCGCCGCTCGTCTGTGCGTGTGACCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTG
GCCCCCTGAACCGCGCAGGCATGGTCAATGCCTGGACACCCAGCAGCAATGACGATAACCCCTGGATCCAGGTG
AACCTGCTGCGGAGGATGTGGGTAAACAGGTGTGGTGCAGCGGGTGCCAGCCGCTTGGCCAGTCATGAGTACCTG
AAGGCCTTCAAGGTGGCCTACAGCCTTAATGGACACGAATTCGATTTCATCCATGATGTTAATAAAAAACACAAG
GAGTTTGTGGGTAACTGGAACAAAACGCGGTGCATGTCAACCTGTTTGAACCCCTGTGGAGGCTCAGTACGTG
AGATTGTACCCACGAGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGC
GCCAATCCCTTGGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGG
GGCTTGATCTCTTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCG
GGGAGCTACGGTAACGATCAGTGGCTGCAGGTGGACCTGGGCTCCTCGAAGGAGGTGACAGGCATCATACCCAG
GGGGCCCGTAACTTTGGCTCTGTCCAGTTTGTGGCATCCTACAAGGTGCCTACAGTAATGACAGTGCGAACTGG
ACTGAGTACCAGGACCCAGGACTGGCAGCAGTAAGATCTTCCCTGGCAACTGGGACAACCACTCCCACAAGAAG
AACTTGTTTGAGACGCCCATCCTGGCTCGCTATGTGCGCATCCTGCCTGTAGCCTGGCACAACCGCATCGCCCTG
CGCCTGGAGCTGCTGGGCTGTTAGTGGCCACCTGCCACCCCAAGTCTTCTGCTTTCCATGGGCCCGCTGCCTC
TTGGCTTCTCAGCCCTTTAAATCACCATAGGGCTGGGGACTGGGGAAGGGGAGGGTGTTCAGAGGCAGCACCAC
CACACAGTCACCCCTCCCTCCCTCTTTCCACCCCTCCACCTCTCACGGGCCCTGCCCCAGCCCTAAGCCCCGTC
CCCTAACCCCAAGTCCTCACTGTCTGTTTCTTAGGCACTGAGGGATCTGAGTAGGTCTGGGATGGACAGGAAA
GGGCAAAGTAGGGCGTGTGGTTTCCCTGCCCCCTGTCCGGACCGCGATCCAGGTGCGTGTGTCTGTCTCTCC
TAGCCCTCTCTCACACATCACATTCCCATGGTGGCCTCAAGAAAGGCCCGGAAGCGCCAGGCTGGAGATAACAG
CCTCTTGCCCGTCGGCCCTGCGTCGGCCCTGGGGTACCATGTGGCCACAACCTGCTGTGGCCCCCTGTCCCCAAGA
CACTTCCCCTTGTCTCCCTGGTTGCCCTCTTTGCCCTTGTCTGAAGCCCAGCGACACAGAAGGGGGTGGGGCG
GGTCTATGGGGAGAAAGGGAGCGAGGTCAGAGGAGGGCATGGGTTGGCAGGGTGGGCGTTTGGGGCCCTCTATGC
TGGCTTTTACCCCAAGGACACAGGCAGCTTCCAAAATATATTTATCTTCTTCACGGG

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FIGURE 4296

GGCCGCGCGTCCCAGAGAGCCAGCCCCGGCCGCGCTCGCGGGGAAGTGCCGCCTGGTGGGGTCACGGCGCCTGAA
GCCACGTGCGCCGCCGAGCCGAGGTGGCCTCGAGCGCGCGGCTGACAGCACAGCCCGCTGAGCTGCCTCCC
GCGCTCCTCCCCGAGGAAAGGATTTTGATTTCAAAGAAAGGAAGGAAGGACAACCTCCAGCTTCCCCGTCC
CGCCCTCCCCGCTCCGAGGGCCGCGCCAGGCCATGCCCAAGAAGGCGGCGGCGGCGGAACCAGCAGAAGGGAC
TTTCCTGGCAGCCCCGGCGACGAGGAGCGCGGACAGTGAGTTTGCTCTGCCCCGGTTTCATGGTTCTGCAAGCCCT
CTAGGAGGCCGAAAGCTGCAGCCCCCTCCCTTGCCCCGAAGAGCCTTCCGCGTTCTCTCGCCCTCGGGCCCCACCC
CGCGCCGCCCCGGGCTCCCGCCGCCGAGCCAGTGCCCTCTGCCCGCGCGGTGGATGGCATGATGGTGCGGGGA
AGGCACCGCGGCCTTGCCAGCTGAGTCGCGACGGCCGCCGGGGCGGCGGCGAGTGGCCGCGCAGCGCGGTGGT
AGCGGGCTCCCCAGCGGCATGCCAGTGCCCCCGGGCGCGATGGCTAGCGGCAGCGCCGGGAAGCCCACTGGCGA
GGCGGCTTCTCCGGTCTCTGCGAGCGCCATCGGCGGGGCCAGCTCGCAGCCGCGGAAGAGGCTGGTATCCGTCTG
CGACCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACCTGCTGCTGCTGTCGAGCGAGGCGCGGCCCGTGTCTT
CGAGGGCCCCGCTCTCTGGTGCCGCGCGGAGTCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAA
GGGGCTCTCCATCTCACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGGACAGCCT
GGTGAGCTGGGCGACCTGGTGGTGTGCTGACCGAGTGCTCGGCCACGCGGCCTATCTGGCCGCTGTGGCCAC
GCCGGGCGCCAGCCCGCGCAGCCGGGCTGGTGGACCGCTACCGCGTGACGCGATGCCGCCACGAGGTGGAGCA
GGTTGCGCGTGTGCGCGCCACGCGCTGGCCGACATGACGCCGACGTGCTGCTGGAGGTGTGCGAGGGCCT
GTCGCGCAACCTCAAGTTCTGACGGACGCGTGCGCCCTGGCCAGTGACAAGTCACGGGACCGCTTTTCGCGGGA
GCAGTTCAAGCTGGGCGTCAAGTGATGACAGCAGCGCTCGGCGCTGCTGGCCTGCGTGCGCGAGGTGAAGGT
GGCGCCAGTGAGCTGGCGCGCAGCCGCTGTGCGCTCTTCAGCGGGCCCCCTGGTGCAGGCAGTGAGCGCCCTGGT
AGGCTTCGCCACCGAGCCGAGTTCCTGGGTGCGCGGCGAGCTGTGAGCGCCGAGGGCAAGGCGGTGCAGACCGC
CATCCTGGGCGGCGCCATGAGCGTGGTGTGCGGCTGCGTGCTCCTGACCCAGTGCTCAGGGATCTGGCGCAGCA
CCCCGACGGGGGCGCCAAGATGTCGGACACAGGGAGAGGCTGAGGAACTCGGCCTGCGCCGTGTCTGAAGGCTG
CACCCTGCTATCTCAGGCTTTAAGGGAGAGGTCTTCGCCCAGGACTTTACCGCCAGTGAATTCCAATTCTGTGAA
TTAGCACCCACCCCATACCCCTTCTTCCACCCCAAGACTAAAGGAAGATACTTACTCTCTGCCCTCTCCATT
TATACCAAAGAAATCATAGGTGAAACCCCTACCTCCCCAACGTTAAATGCTCGAGAGGAATCTTCCACAAGGC
AGGGCCATGCACGCAACCTGCACACGCACTTGAGGGGCCAGGTGTCTCTCCACAGCCCCATGCAGTAGGGAC
TGGAAGATATGTCATCTGCTGGTTGTGTATCACTCCCACCCCCTACCCAGCCCGTCTTCCGGAATTTCTCAAC
TAAATTTCAATTATTGGGCAGGAAGGAGGTGATGGGTTCAATTTATTTTGTGTTTTTAATTAAAAGAA
AGGTTACCTCAGTTTTCTCTCTTAGACATGGATGTAGCTACCTTTTTTGTATGTCTTTTTTTTTTAAGCAAT
CGTGTGAATTAGGAGTATACTTGGTGAGGAAAGAGTATGAATTTGCCATGTGATTTGCAAATGGGGGGAAGCTA
CTGTGAGCGTGTGTTTTTTAATTTACACTATAGAGTGATTTTTTTTCCCCAACGTCAAGTTTTTACCTTGCA
GTACTGGAGTATTTATTTATCTATTAAATGTTATGTTCTCAGAAAAAACCTCGTGGCGAATCTTGGCCCT
GAGGGCCAAAT

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FIGURE 4297

MASGSAGKPTGEAASPAPASAIGGASSQPRKRLVSVCDHCKGKMLVADLLLLSSEARPVLFEGPASSGAGAESF
EQCRDTIIARTKGLSILTHDVQSQLNMGRFGEAGDSLVELGDLVVSLTECSAHAAYLAAVATPGAQPAQPGLVDR
YRVTRCRHEVEQGCAVLRATPLADMTPQLLLEVSQGLSRNLKFLTDACALASDKSRDRFSREQFKLGVKCMSTSA
SALLACVREVKVAPSELARSRCALFSGPLVQAVSALVGFATEPQFLGRAAAVSAEGKAVQTAILGGAMSVVSACV
LLTQCLRDLAQHPDGGAKMSDHRERLRNSACAVSEGCTLLSQALRERSSPRTLPPVNSNSVN

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FIGURE 4298A

GAGCTAGCGCTCAAGCAGAGCCCAGCGGGTGCTATCGGACAGAGCCTGGCGAGCGCAAGCGGCGCGGGGAGCCA
GCGGGGCTGAGCGCGGCCAGGGTCTGAACCCAGATTTCACAGACTAGCTACCACTCCGCTTGCCACGCCCGGG
AGCTCGCGGCGCCTGGCGGTACAGCGACCAGACGTCCGGGGCCGCTGCGCTCCTGGCCCGCAGGGCGTGACACTGT
CTCGGCTACAGACCCAGAGGGAGCACACTGCCAGGATGGGAGCTGCTGGGAGGCAGGACTTCCTCTTCAAGGCCA
TGCTGACCATCAGCTGGCTCACTCTGACCTGCTTCCCTGGGGCCACATCCACAGTGGCTGCTGGGTGCCCTGACC
AGAGCCCTGAGTTGCAACCCTGGAACCTGGCCATGACCAAGACCACCATGTGCATATCGGCCAGGGCAAGACAC
TGCTGCTCACCTCTTCTGCCACGGTCTATTCCATCCACATCTCAGAGGGAGGCAAGCTGGTCATTAAAGACCACG
ACGAGCCGATTGTTTTGCGAACCCGGCACATCCTGATTGACAACGGAGGAGAGCTGCATGCTGGGAGTGCCCTCT
GCCCTTTCCAGGGCAATTTACCATCATTTTGTATGGAAGGGCTGATGAAGGTATTACGCCGATCCTTACTATG
GTCTGAAGTACATTGGGGTTGGTAAAGGAGGCGCTCTTGAGTTGCATGGACAGAAAAAGCTCTCCTGGACATTT
TGAACAAGACCCTTCACCCAGGTGGCATGGCAGAAGGAGGCTATTTTTTTGAAAGGAGCTGGGGCCACCGTGGAG
TTATTGTTTCATGTCATCGACCCCAAATCAGGCACAGTCATCCATTCTGACCGGTTTGACACCTATAGATCCAAGA
AAGAGAGTGAACGCTGGTCCAGTATTTGAACGCGGTGCCCGATGGCAGGATCCTTTCTGTTGCAGTGAATGATG
AAGGTTCTCGAAATCTGGATGACATGGCCAGGAAGGCGATGACCAAATGGGAAGCAAACACTTCCTGCACCTTG
GATTAGACACCCTTGAGGTTTTCTAACTGTGAAAGGAAATCCATCATCTTCAGTGGAAAGACCATATTGAATATC
ATGGACATCGAGGCTCTGCTGCTGCCCGGGTATTCAAATGTTCCAGACAGAGCATGGCGAATATTTCAATGTTT
CTTTGTCCAGTGAGTGGGTTCAAGACGTGGAGTGGACGGAGTGGTTCGATCATGATAAAGTATCTCAGACTAAAG
GTGGGGAGAAAAATTTACAGCCTCTGGAAAGCTCACCCAGGAAAAATATGCAATCGTCCCATTGATATACAGGCCA
CTACAATGGATGGAGTTAACCTCAGCACCGAGGTTGTCTACAAAAAGGCCAGGATTATAGGTTTGCTTGCTACG
ACCGGGGCAGAGCCTGCCGGAGCTACCGTGTACGGTTCCCTCTGTGGGAAGCCTGTGAGGCCCAAACCTCACAGTCA
CCATTGACACCAATGTGAACAGCACCATTCTGAACTTGGAGGATAATGTACAGTCATGGAACCTGGAGATACCC
TGGTCATTGCCAGTACTGATTACTCCATGTACCAGGCAGAAGAGTTCCAGGTGCTTCCCTGCAGATCCTGCGCCC
CCAACCAGGTCAAAGTGGCAGGGAAACCAATGTACCTGCACATCGGGAGGAGATAGACGGCGTGACATGCGGG
CGGAGGTTGGGCTTCTGAGCCGGAACATCATAGTGATGGGGGAGATGGAGGACAAATGCTACCCCTACAGAAACC
ACATCTGCAATTTCTTTGACTTCGATACCTTTGGGGGCCACATCAAGTTTGCTCTGGGATTTAAGGCAGCACT
TGGAGGGCACGGAGCTGAAGCATATGGGACAGCAGCTGGTGGGTGAGTACCCGATTCACTTCCACCTGGCCGGTG
ATGTAGACGAAAGGGGAGGTTATGACCCACCCACATACATCAGGGACCTTCCATCCATCATCACTTCTCTCGCT
GCGTCACAGTCCATGGCTCCAATGGCTTGTGATCAAGGACGTTGTGGGCTATAACTCTTTGGGCCACTGCTTCT
TCACGGAAGATGGGCCGGAGGAACGCAACACTTTTGACCACTGTCTTGGCCTCCTTGTCAGTCTGGAACCTCC
TCCCTCGGACCGTGACAGCAAGATGTGCAAGATGATCAGAGGACTCCTACCCGGGGTACATCCCCAAGCCCA
GGCAAGACTGCAATGCTGTGTCCACCTTCTGGATGGCCAATCCCAACAACAACCTCATCAACTGTGCCGCTGCAG
GATCTGAGGAACTGGATTTGGTTTATTTTACCACGTACCAACGGGCCCTCCGTGGGAATGTACTCCCCAG
GTTATTAGAGCACATTCCACTGGGAAAAATCTATAACAACCGAGCACATTCCAACCTACCGGGCTGGCATGATCA
TAGACAACGGAGTCAAAACCACCGAGGCTCTGCCAAGGACAAGCGGCCGTTTCTCTCAATCATCTCTGCCAGAT
ACAGCCCTCACAGGACGCGGACCCGCTGAAGCCCCGGGAGCCGCCATCATCAGACACTTCATTGCCTACAAGA
ACCAGGACCACGGGGCTGGCTGCGCGGGGATGTGTGGCTGGACAGCTGCCGGTTTGCTGACAATGGCATTG
GCCTGACCCTGGCCAGTGGTGGAACTTCCCGTATGACGACGGCTCCAAGCAAGAGATAAAGAACAGCTTGTGTTG
TTGGCGAGAGTGGCAACGTGGGGACGGAATGATGGACAATAGGATCTGGGGCCTGGCGGCTTGGACCATAGCG
GAAGGACCCTCCCTATAGGCCAGAATTTTCCAATTAGAGGAATTCAGTTATATGATGGCCCCATCAACATCCAAA
ACTGCATTTCCGAAAGTTTGTGGCCCTGGAGGGCCGGCACACCAGCGCCCTGGCCTTCCGCCTGAATAATGCCT
GGCAGAGCTGCCCCATAACAACGTGACCGGCATTGCCTTTGAGGACGTTCCGATTACTTCCAGAGTGTTCTTCG
GAGAGCTGGGCCCTGGTTCAACCAGCTGGACATGGATGGGGATAAGACATCTGTGTTCCATGACGTCGACGGCT
CCGTTCCGAGTACCCTGGCTCCTACCTACGAAGAATGACAACCTGGCTGGTCCGGCACCCAGACTGCATCAATG
TTCCCGATGGAGAGGGGCCATTGTCAGTGGGTGCTATGCACAGATGTACATTCAAGCCTACAAGACCAGTAACC
TGCGAATGAAGATCATCAAGAATGACTTCCCCAGCCACCCTCTTACCTGGAGGGGGCGCTCACCAGGAGCACCC
ATTACCAGCAATACCAACCGTTGTACCCCTGCAGAAGGGCTACACCATCCACTGGGACCAGACGGCCCCCGCG
AACTCGCCATCTGGCTCATCAACTTCAACAAGGGCGACTGGATCCGAGTGGGGCTCTGCTACCCGCGAGGCACCA
CATTCTCCATCCTCTCGGATGTTCACAATCGCCTGCTGAAGCAAACGTCCAAGACGGGCGTCTTCGTGAGGACCT

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FIGURE 4298B

TGCAGATGGACAAAGTGGAGCAGAGCTACCCTGGCAGGAGCCACTACTACTGGGACGAGGACTCAGGGCTGTTGT
TCCTGAAGCTGAAAGCTCAGAACGAGAGAGAGAAGTTTGCTTTCTGCTCCATGAAAGGCTGTGAGAGGATAAAGA
TTAAAGCTCTGATTCCAAAGAACGCAGGCGTCAGTGACTGCACAGCCACAGCTTACCCCAAGTTACCCGAGAGGG
CTGTCGTAGACGTGCCGATGCCAAGAAGCTCTTTGGTTCTCAGCTGAAAACAAAGGACCATTCTTTGGAGGTGA
AGATGGAGAGTTCCAAGCAGCACTTCTTCCACCTCTGGAACGACTTCGCTTACATTGAAGTGGATGGGAAGAAGT
ACCCCAAGTTCCGGAGGATGGCATCCAGGTGGTGGTGATTGACGGGAACCAAGGGCGCGTGGTGAGCCACACGAGCT
TCAGGAACCTCCATTCTGCAAGGCATACCATGGCAGCTTTTCAACTATGTGGCGACCATCCCTGACAATTCCATAG
TGCTTATGGCATCAAAGGGAAGATACGTCTCCAGAGGCCCATGGACCAGAGTGCTGGAAAAGCTTTGGGGCAGACA
GGGGTCTCAAGTTGAAAGAGCAAAATGGCATTTCGTTGGCTTCAAAGGCAGCTTCCGGGCCATCTGGGTGACACTGG
ACACTGAGGATCAAAAGCCAAAATCTTCCAAGTTGTGCCATCCCTGTGGTGAAGAAGAAGAAGTTGTGAGGAC
AGCTGCCGCCCCGTGCCACCTCGTGGTAGACTATGACGGTGACTCTTGGCAGCAGACCAGTGGGGGATGGCTGGG
TCCCCAGCCCCCTGCCAGCAGCTGCCTGGGAAGGCCGTGTTTACGCCCTGATGGGCCAAGGGAAGGCTATCAGAG
ACCCTGGTGCTGCCACCTGCCCTACTCAAGTGTCTACCTGGAGCCCCCTGGGGCGGTGCTGGCCAATGCTGGAAA
CATTCACCTTCTCGCAGCCTCTTGGGTGCTTCTCTCTATCTGTGCTCTTTCAGTGGGGGTTTGGGGACCATATC
AGGAGACCTGGGTTGTGCTGACAGCAAAGATCCACTTTGGCAGGAGCCCTGACCCAGCTAGGAGGTAGTCTGGAG
GGCTGGTCATTACAGATCCCCATGGTCTTCAGCAGACAAGTGAGGGTGGTAAATGTAGGAGAAAGAGCCTTGGC
CTTAAGGAAATCTTTACTCCTGTAAAGCAAGAGCCAACCTCACAGGATTAGGAGCTGGGGTAGAACTGGCTATCCT
TGGGGAAGAGGCAAGCCCTGCCTCTGGCCGTGTCCACCTTTCAGGAGACTTTGAGTGGCAGGTTTGGACTTGGAC
TAGATGACTCTCAAAGGCCCTTTTAGTTCTGAGATTCAGAAATCTGTGCTATTCACATGGTACCTGGAACCCA
ACAGTTTCATGGATATCCACTGATATCCATGATGCTGGGTGCCACAGCGCACACGGGATGGAGAGGTGAGAACTAA
TGCTTAGCTTGAGGGGTCTGCAGTCCAGTAGGGCAGGCAGTCAGGTCCATGTGCACTGCAATGCCAGGTGGAGAA
ATCACAGAGAGGTAAATGGAGGCCAGTGCCATTTACAGAGGGAGGCTCAGGAAGGCTTCTTGCTTACAGGAATG
AAGGCTGGGGGCATTTTGCTGGGGGGAGATGAGGCAGCCTCTGGAATGGCTCAGGGATTACGCCCTCCCTGCCGC
TGCTGTGAAGCTGGTGACTACGGGGTCGCCCTTTGCTCACGTCTCTTGCCCCACTCATGATGAGAAAGTGTG
GTCAGAGGGGAGCAATGGGCTTTGCTGCTTATGAGCACAGAGGAATTCAGTCCCCAGGCAGCCCTGCCTCTGACT
CCAAGAGGGTGAAGTCCACAGAAGTGAGCTCCTGCCTTAGGGCCTCATTGCTCTTCATCCAGGGAAGTACGAC
AGGGGGCCTCCAGGAGACCCTAGATGTGCTCGTACTCCCTCGGCCCTGGGATTTACAGAGCTGGAATATAGAAAAT
ATCTAGCCCAAAGCCTTCATTTTAAACAGATGGGGAAGTGAGCCCCCAAGATGGGAAAGAACACACAGCTAAGG
GAGGGCCTGGGGAGCCCCACCCTAGCCCTTGCTGCCACACCACATTGCCTCAACAACCGCCCCAGAGTGCCCG
GCACTCCTGAGGTAGCTTCTGGAATGGGGACAAGTCCCTCGAAGGAAAGGAAATGACTAGATAGAATGACAG
CTAGCAGATCTCTCCCTCCTGCTCCAGCGCACACAACCCGCCCTCCCTTGCTGTTGGCGGTCCCTGTGGCC
TTCACCTTGTTCCTACCTGTGCTAGCCAGCCTGGGTGCACAGTAGCTGCACTCCCATTTGGTGCTACCTGGCTC
TCCTGTCTCTGCAGCTCTACAGGTGAGGCCAGCAGAGGGAGTAGGGCTCGCCATGTTTCTGGTGAGCCAATTTG
GCTGATCTTGGGTGTCTGAACAGCTATTGGGTCCACCCAGTCCCTTTCAGCTGCTGCTTAATGCCCTGCTCTCT
CCCTGGCCACCTTATAGAGAGCCCAAAGAGCTCCTGTAAAGAGGAGAACTCTATCTGTGGTTTATAATCTTGCA
CGAGGCACCAAGAGTCTCCCTGGGTCTTGTGATGAACATACATTTATCCCTTTCTGCCCCAACCAAACTCTTT
CCTTCAAAGAGGGCCTGCCTGGCTCCCTCCACCAACTGCACCCATGAGACTCGGTCCAAGAGTCCATTCCCCAG
GTGGGAGCCAACTGTGAGGAGGTCTTTCCACCAAACTCTTTTACAGCTGCTGGGAGGTGACCATAGGGCTCTGC
TTTTAAAGATATGGCTGCTTCAAAGGCCAGAGTCACAGGAAGGACTTCTTCCAGGGAGATTAGTGGTGATGGAGA
GGAGAGTTAAATGACCTCATGTCTTCTGTGCCAGGTTTGTGTTAGTTTTCACCTCTTCTAATGCAAGGGTCTC
ACACTGTGAACCACTTAGGATGTGATCACTTTTCAAGGTGGCCAGGAATGTTGAATGTCTTTGGCTCAGTTCATTTA
AAAAAGATCTATTTGAAAGTTCTCAGAGTTGTACATATGTTTACAGTACAGGATCTGTACATAAAAGTTTCT
TTCTTAACCACTTACCAAGAGCCAATATCTAGGCATTTTCTTGGTAGCACAAATTTTCTTATTGCTTAGAAAAT
TGTCCTCCTTGTATTCTGTTTGTAAAGCTTAAAGTGAAGTAGGCTTTTAAAGGAAAGCAACGCTCCTCTGAAATG
CTTGCTTTTTTCTGTTGCCGAAATAGCTGGTCTTTTTCGGGAGTTAGATGTATAGAGTGTGTTGATGTAAACA
TTTCTGTAGGCATCACCATGAACAAAGATATATTTCTATTTATTTATATGTGCACTTCAAGAAGTCACTG
TCAGAGAAATAAAGAAATGTCTTAAATGTC

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FIGURE 4299

MGAAGRQDFLFKAMLTISWLTLTCTFPGATSTVAAGCPDQSPQLPWNPGHDQDHHVHIGQGKTLLLTSSATVYSI
HISEGGKLVIKDHDEPIVLRTRHILIDNGGELHAGSALCPFQGNFTIILYGRADEGIQDPYIYGLKYIGVGKGA
LELHGQKKLSWTFLNKTLHPGGMAEGGYFFERSWGHGRGVIVHVIDPKSGTVIHSRFDITYRSKKESERLVQYLNA
VPDGRILSVAVNDEGSRNLDDMARKAMTKLGSKHFLHLGFRHPWSFLTIVKGNPSSSVEDHIEYHGHRGSAAARVF
KLFQTEHGEYFNVSLSSEWVQDVEWTEWFDHDKVSQTKGGEKISDLWKAHPGKICNRPIDIQATTMDGVNLSTEV
VYKKGQDYRFACYDRGRACRSYRVRFICGKPVVRPKLTVTIDTNVNSTILNLEDNVQSWKPGDTLVIASDYSYQ
AEEFQVLPSCRSCAPNQVKVAGKPMYLIHIGEEIDGVDMAEVGLLSRNIIVMGEMEDKCPYRNHICNFFDFDTFG
GHIKFALGFKAHLEGTELKHMGGQLVGQYPIHFHLAGDVDERGGYDPPYIYRDLISIHHTFSRCVTVHGSNGLLI
KDVVGYNLSLGHCFEEDGPEERNTFDHCLGGLLVKSGTLLPSDRDSKMCKMITEDSYPGYIPKPRQDCNAVSTFWM
ANPNNNLINCAAAGSEETGFWFIFHHVPTGPSVGMSPGYSEHIPLGKFYNNRAHSNYRAGMIIDNGVKTEASA
KDKRPFLSIIISARYSPHQDADPLKPREPAIIRHFIAIKYQDHDGAWLRGGDVWLDSCRFAADNGIGLTLASGGTFPY
DDGSKQEIKNLSLVGESGNVGTMMDNRIWGPGLDHSRGTLPIGQNFPIRGIQLYDGPINIQNCTFRKFVALEG
RHTSALAFRLNNAWQSCPHNNVTGIAFEDVPITSRVFFGEPGPWFNQDMDGDKTSVFHDVDGSVSEYPGSYLT
NDNWLVRHPDCINVPDWRGAICSGCYAQMYIQAYKTSNLRMKIINKDFPSHPLYLEGALTRSTHYQQYQPVVTLQ
KGYTIHWDQTAPAEIAIWLINFNKGDWIRVGLCYPRGTTFSILSDVHNRLKQTSKTGVFVRTLQMDKVEQSYPG
RSHYYWDEDSGLLFLKLKAQNEREKFAFCSMKGCEKIKALIPKNAGVSDCTATAYPKFTERAVVDVPMPPKLF
GSQKTKDHFLEVMESSKQHFFHLWDFAYIEVDGKKYPSSSEDGIQVVVIDGNQGRVVSHTSFRNSILQGIPWQ
LFNYVATIPDNSIVLMAKGRYVSRGPWTRVLEKLGA DRGLKLKEQMAFVGFKGSFRPIWVTLDTEDHKAKIFQV
VPIPVVKKKKL

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FIGURE 4300

AGTCCTGCTCTCCGCACGCCACCTTAGGCCCGCAGCCGTGCCGGGTGCTCTTCAGCATGTTCCTTCATCCCGGTGG
CCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGCGACCCAAGACCGAGGA
TAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCCTCTCCA
AACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGGTGAGGCTGCCTGGAAGGAGGCGA
GAGTGTCTTGCAGAACTTGCTGTCTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCAT
TCATCTCCCAGGCTTCTGCCACGATGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTCAGGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAG
TGGGCTACCATGGCCGTGCCTCCTCTGTCTGTGGTGTCTGGCACCCCAATCCGAAGGCCCATGGGACAGATGAAAC
CTGATGACTCTAAGCCTCCCGTATATGGTGCCCTGCAAGCTCTTGGACATGGAGCTGGAAATGGCTTTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTTCCAAGGCCCATGAGCACATTTTGGAAATGGTCCTTATGA
ACGACTGGAGTGCACGAGACATTGAGAAGTGGGAGTATGTCCCTCTCGGGCCATTCCCTGGGAAGAGTTTGGGA
CCACTGTCTCTCCGTGGGTGGTGCCCATGGATGCTCTCATGCCCTTTGCTGTGCCCAACCCGAAGCAGGACCCCA
GGCCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTTAACCTGAAAGGAGAAG
GAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTTAAGTACATGTACTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCAACGGCTGCAACCTGCGGCCGGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAG
AAAACCTTCGGCTCCATGTTGGAACGTGCTGGAAGGGAACGAAGCCCATAGACCTGGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGTTACCGCATCGGCTTTGGCC
AGTGTGCTGGAAGAGTGCTGCCTGCTCTCCTGCCATCATGTGAGATTTTCTCTGCTCTTCTGGAAACAAAGGGCTCA
AGCACCCCTTTCAACCTGTGACTGGGGTCCTCCCTCGGGCTGTAGGCCTGGTCCGCCATTCAGTGACAAATAAA
GCCATTGTGCTCTGAGGCCTGC

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FIGURE 4301

MSFIPVAEDSDFPIHNLPYGVFSTRGDRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQ
AAWKEARVFLQNLLSVSQARLRDDTELKCAFISQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMP
NWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPGNRLGEPISKAHEHI
FGMVLMDWSARDIQWEYVPLGPFLGKSFGTTVSPWVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS
VNLKGEGMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTKPIDL
GNGQTRKFLLDGDEVIITGYCQGDGYRIGFGQCAGKVLPAALLPS

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FIGURE 4302

TCGACATGGCGGTTACCCCTGAGTCTCTTGCTGGGCGGGCGCGTTTGCGCCGCCGTCACCTCGCTGTGGGTTCGCGA
CCCGGGGGGTGGCGGGGCCAGGCCCTATTGGCCGGGAGCCGACCCCGATTCCGACTGGGAGCCGGAGGAACGGG
AGCTGCAGGAGGTGGAGAGGTACCGGCTTCTCCCCGGGCCCTCAGCTTGAAGCAGGGCCTCGTGCCCCGGCGCTC
CAGGCCGCGCCCCCTTGGCGCCGGGTGTCTGCCGCTGCTTGCGCAGCGGCCCTTGTTTCTTCTTACCCGTTGTT
AGGGGCGCAGCGTCAGGTGTTTACAGTCCCCGGGACCACTGGTCCCTTCATTAGTGACGTATTTTCATCATCAGTTT
AGAGAGTTCGGCATGCTTACAGGCAGTTATTGTTCTAGGTGTTAGCTTTCTGGGTGTACGGAGCAGCTCTAAGCC
GGCAACATGGCCCGGTTGCCCTTGCGATCAAAGAGAAGAGGGCTGGGCGCTCCATGATTTAGCCTGAGGCTCTTC
AAACATCCATTCTGCTTCCACGCATGGCTTCTGCCATTGGTTCTCTTCCCCCAGCACCCCTGAAACGACAGAAACA
AGCAATCCGATTCCAGAAAATTTCGGAGGCAAAATGGAGGCGCCTGGTGCCCCGCCAGGACCCTGACGTGGGAAGC
CATGGAGCAGATACGGTATTTACATGAGGAATTTCCAGAGTCTGGTCAGTTCCCAGGTTGGCTGAAGGCTTTGA
TGTCAGCACTGATGTGATCCGAAGAGTTTTAAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGA
TCAAAAAGTCCTTAAGAAAGCTGGGCTTGCCCACTCGCTGCAGCACCTCCGGGGCTCTGGAAATACCTCAAAGCT
GCTCCCTGCAGGCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCA
CAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAGGAGAAGGAAGGGAAGAAATAA
AGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCATCCAAGAGAGCTGCAGAAGTA
CTCCAGTGATTCTGAGAGCCCCAGAGGAAGTGGCAGTGGTGCGTTGCCAAGTGGTCAGAAGCTGGAGGAGTTGAA
GGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGAGAGGGGCCGAGAGTTCTTTGACAGCAACGGGAAGCTT
CCTGTACAGAATTTGAGTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACAGCTGGGCAAGTATTAATGTAT
ATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGAATAGGAAGAGGTGTTGAGCCTGGACTGTGGGA
GGAAAGAGCTGCGTGGATAGATTCAAACCTTCTGTGGTAGTGCTCCAGTCTGACCTCTGTAGACCTTCAGTACT
CACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTGTCATGTGTTGTACAATTTTCTGTGATA
CTTGCAATTTATGTTTGAAGAAGTGAAAAGTTTGCCTTCTGACCTCATTTCCTTCTTGATCAGTGAACACTAA
CATTTTGGGGACAACCTTAGTCAATTGGTTTTCTTACAACAAAATAAAGTAAAATGTAGCAAAAAAAAAAAAAA
AAAA

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FIGURE 4303

MEAPGAPPRTLTWEAMEQIRYLHEEFPEWSVPRLAEGFDVSTDVIRRVLKSKEFLPTLEQKLKQDQKVLKKAGLA
HSLQHLLRGSGNTSKLLPAGHSVSGSLLMPGHEASSKDPNHSTALKVIESDTHRTNTPRRRKGRNKEIQDLEESFV
PVAAPLGHPRELQKYSSDSESPRGTGSGALPSGQKLEELKAEEDNFSSKVVRGREFFD SNGNFLYRI

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FIGURE 4304

CTGAAGGCTTTGATGTCAGCACTGATGTGATCCGAAGAGTTTACAGGCTCTTGCTTATGCCAGGGCATGAAGC
CTCATCTAAAGACCCAAATCACAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAG
GAGAAGGAAGGGAAGAAATAAAGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCA
TCCAAGAGAGCTGCAGAACTACTCCAGTGATTCTGAGAGCCCCAGAGGAAGTGGCAGTGGTGCGTTGCCAAGTGG
TCAGAAGCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTT
CTTTGACAGCAACGGGAACCTTCCTGTACAGAATTTGAGTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACA
GCTGGGCAAGTATTAATGTATATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGAATAGGAAGAGG
TGTTGAGCCTGGACTGTGGGAGGAAAGAGCTGCGTGGATAGATTCAAACCTTCCTGTGGTAGTGCTCCAGTCTGA
CCTCTGTAGACCTTCAGTACTCACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTTCATGT

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FIGURE 4305

TCTCCCGAATTCGGCACGAGGCGGCGTCTCGAGGCGAGTTGGCGGAGCTGTGCGCGCGGCGGGGCGATGGGGGGC
TCGGGCAGTCGCCTGTCCAAGGAGCTGCTGGCCGAGTACCAGGACTTGACGTTCTTGACGAAGCAGGAGATCCTC
CTAGCCACAGGCGGTTTTGTGAGCTGCTTCCCCAGGAGCAGCGGACCGTGGAGTCGTCACTTCGGGCACAAGTG
CCCTTCGAGCAGATTCTCAGCCTTCCAGAGCTCAAGGCCAACCCCTTCAAGGAGCGAATCTGCAGGGTCTTCTCC
ACATCCCAGCCAAAGACAGCCTTAGCTTTGAGGACTTCCTGGATCTCCTCAGTGTGTTCAGTGACACAGCCACG
CCAGACATCAAGTCCCATTTATGCCCTTCGCATCTTTGACTTTGATGATGACGGAACCTTGAACAGAGAAGACCTG
AGCCGGCTGGTGAAGTGCCTCACGGGAGAGGGCGAGGACACACGGCTTAGTGCGTCTGAGATGAAGCAGCTCATC
GACAACATCCTGGAGGAGTCTGACATTGACAGGGATGGAACCATCAACCTCTCTGAGTTCAGCACGTCATCTCC
CGTTCTCCAGACTTTGCCAGCTCCTTTAAGATTGTCCTGTGACAGCAGCCCCAGCGTGTGTCCTGGCACCCCTGTC
CAAGAACCTTTCTACTGCTGAGCTGTGGCCAAGGTCAAGCCTGTGTTGCCAGTGCGGGCCAAGCTGGCCCAGCCT
GGAGCTGGCGCTGTGCAGCCTCACCCCGGGCAGGGCGGGCCCTCGTTGTGTCAGGGCCTCTCCTCACTGCTGTTGTC
ATTGCTCCGTTTGTGTTTGTACTAATCAGTAATAAAGGTTTAGAAGTTTGACCCTAAAAAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 4306

MGGSGSRLSKELLA EYQDLTFLTKQEILLAHRRFCCELLPQE QRTVESSLRAQVPFEQILSLPELKANPFKERICR
VFSTSPAKDSL SFEDFLDLLSVFSDTATPDIKSHYAFRIFD FDDGTLNREDLSRLVNC LTGEGEDTRLSASEMK
QLIDNILEESDIDRDGTINLSEFQHVISRSPDFASSFKIVL

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FIGURE 4307A

GCTCTGCCCAAGCCGAGGCTGCGGGGCCGGCGCCGGCGGGAGGACTGCGGTGCCCCGCGGAGGGGCTGAGTTTGC
CAGGGCCCACTTGACCCTGTTTTCCACCTCCCGCCCCCAGGTCCGGAGGCGGGGGCCCCCGGGGCGACTCGGGG
GCGGACCGCGGGGCGGAGCTGCCGCCGTGAGTCCGGCCGAGCCACCTGAGCCCCGAGCCGCGGGACACCGTCGCT
CCTGCTCTCCGAATGCTGCGCACCGCGATGGGCCTGAGGAGCTGGCTCGCCGCCCATGGGGCGCGCTGCCGCCT
CGGCCACCGCTGCTGCTGCTCCTGCTGCTGCTGCTCCTGCTGTCAGCCGCCGCTCCGACCTGGGGCGCTCAGCCCC
CGGATCAGCCTGCCCTCTGGGCTCTGAAGAGCGGCCATTCCCTCAGATTGAAGCTGAACACATCTCCAACACACA
GCCCTTCTGCTGAGCAGGGATGGCAGGACCCTGTACGTGGGTGCTCGAGAGGCCCTCTTTGCACTCAGTAGCAAC
CTCAGCTTCTGCCAGGCGGGGAGTACCAGGAGCTGCTTTGGGGTGTCAGACGCAGAGAAGAAACAGCAGTGACGC
TTCAAGGGCAAGGACCCACAGCGCGACTGTCAAACTACATCAAGATCCTCCTGCCGCTCAGCGGCAGTCACCTG
TTCACCTGTGGCACAGCAGCCTTCAGCCCCATGTGTACCTACATCAACATGGAGAACTTCACCCTGGCAAGGGAC
GAGAAGGGGAATGTCTCTGGAAGATGGCAAGGGCCGTTGTCCCTTCGACCCGAATTTCAAGTCCACTGCCCTG
GTGGTTGATGGCGAGCTCTACACTGGACAGTCAGCAGCTTCCAAGGGAAATGACCCGGCCATCTCGCGGAGCCAA
AGCCTTCGCCCCACCAAGACCGAGAGCTCCCTCAACTGGCTGCAAGACCCAGCTTTTGTGGCTCAGCCTACATT
CCTGAGAGCCTGGGCAGCTTGCAAGGCGATGATGACAAGATCTACTTTTTCTTCAGCGAGACTGGCCAGGAATTT
GAGTTCTTTGAGAACACCAATTGTGTCCCGCATTGCCCGCATCTGCAAGGGCGATGAGGGTGAGAGCGGGTGCTA
CAGCAGCGCTGGACCTCCTTCTCAAGGCCAGCTGCTGTGCTCAGGCCCGACGATGGCTTCCCCCTCAACGTG
CTGCAGGATGTCTTACGCTGAGCCCCAGCCCCAGGACTGGCGTGACACCCCTTTTCTATGGGGTCTTCACTTCC
CAGTGGCACAGGGGAACACAGAAGGCTCTGCCGTCTGTGCTTTCACAATGAAGGATGTGCAGAGAGTCTTCAGC
GGCCTCTACAAGGAGGTGAACCGTGAGACACAGCAGATGGTACACCGTGACCCACCCGTGCCACACCCCGGCCT
GGAGCGTGATACCAACAGTGCCCGGGAAAGGAAGATCAACTCATCCCTGCAGCTCCCAGACCGCGTGCTGAAC
TTCTCAAGGACCACTTCTGATGGACGGGCAGGTCCGAAGCCGATGTGTGCTGCTGTCAGCCCCAGGCTCGCTAC
CAGCGCGTGGCTGTACACCGCGTCCCTGGCCTGCACCACACCTACGATGTCTCTTCTGGGCACTGGTGACGGC
CGGCTCCACAAGGCACTGAGCGTGGGCCCGGGTGACATCATTGAGGAGCTGCAGATCTTCTCATCGGGACAG
CCCGTGCAATCTGCTCCTGGACACCCACAGGGGGTGCTGTATGCGGCCTCACACTCGGGCGTAGTCCAGGTG
CCCATGGCCAACTGCAGCCTGTACAGGAGCTGTGGGGACTGCCTCCTCGCCCGGGACCCCTACTGTGCTTGGAGC
GGCTCCAGCTGCAAGCACGTCAGCCTTACAGCCTCAGCTGGCCACCAGGCCGTGGATCCAGGACATCGAGGGA
GCCAGCGCCAAGGACCTTTGCAGCGCTCTTCGGTTGTGTCCCGCTCTTTGTACCAACAGGGGAGAAGCCATGT
GAGCAAGTCCAGTTCCAGCCCAACACAGTGAACACTTTGGCCTGCCCGCTCCTCTCCAACCTGGCGACCCGACTC
TGGCTACGCAACGGGGCCCCCGTCAATGCCTCGGCCTCCTGCCACGTGCTACCCACTGGGGACCTGCTGCTGGTG
GGCACCAACAGCTGGGGGAGTTCCAGTGTGCTGCTACTAGAGGAGGGCTTCCAGCAGCTGGTAGCCAGCTACTGC
CCAGAGGTGGTGGAGGACGGGGTGGCAGACCAACAGATGAGGGTGGCAGTGTACCCGTCATTATCAGCACATCG
CGTGTAGTGCACCACTGGTGGCAAGGCCAGCTGGGGTGACAGGTCCTACTGGAAGGAGTTCCTGGTGATG
TGCACGCTCTTTGTGCTGGCCGTGCTGCTCCAGTTTTATTCTTGTCTTACCGGCACCGGAACAGCATGAAAGTC
TTCCTGAAGCAGGGGGAATGTGCCAGCGTGACCCCAAGACCTGCCCTGTGGTGCTGCCCCCTGAGACCCGCCCA
CTCAACGGCCTAGGGCCCCCTAGCACCCGCTCGATACCGAGGGTACCAGTCCCTGTGAGACAGCCCCCGGGG
TCCCAGTCTTCACTGAGTCAGAGAAGAGGCCACTCAGCATCCAAGACAGCTTCGTGGAGGTATCCCCAGTGTGC
CCCCGGCCCCGGGTCCGCTTGGCTCGGAGATCCGTGACTCTGTGGTGTGAGAGCTGACTTCCAGAGGACGCTGC
CCTGGCTTCAGGGGCTGTGAATGCTCGGAGAGGGTCAACTGGACCTCCCTCCGCTCTGCTCTTCGTGGAACAG
ACCGTGCTGCCGGCCCTTGGGAGCCTTGGGGCAGCTGGCCTGCTGCTCTCCAGTCAAGTAGCGAAGCTCCTAC
CACCCAGACACCAACAGCCGTGGCCCCAGAGGTCTTGCCAAATATGGGGGCTGCTAGGTTGGTGGAACAG
TGCTCCTTATGTAACTGAGCCCTTTGTTTAAAAAACAATTCCAATGTGAACTAGAATGAGAGGGAAGAGATA
GCATGGCATGCAGCACACAGGCTGCTCCAGTTCATGGCCTCCAGGGGTGCTGGGGATGCATCCAAGTGGTTG
TCTGAGACAGAGTTGGAAACCTCACCAACTGGCCTCTTACCTTCCACATTATCCCGCTGCCACCGCTGCCCT
GTCTACTGCAGATTCAGGACCAGCTTGGGCTGCGTGGCTTCTGCCTTCCAGTCAGCCGAGGATGTAGTTGTG
CTGCCGTGCTCCACACCTCAGGGACCAGAGGGCTAGGTTGGCACTGCGGCCCTCACCAGGTCCTGGGCTCGGA
CCCAACTCCTGGACCTTTCCAGCCTGTATCAGGCTGTGGCCACACGAGAGGACAGCGGAGCTCAGGAGAGATT
CGTGACAATGTACGCCTTTCCCTCAGAATTCAGGGAAGAGACTGTCGCTGCCTTCCCTCCGTTGTTGCGTGAGAA
CCCGTGTGCCCTTCCCACCATATCCACCTCGCTCCATCTTTGAACCTCAAACACGAGGAACCTAAGTGCACCTG

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FIGURE 4307B

GTCTCTCCCCAGTCCCCAGTTCACCCCTCCATCCCTCACCTTCCTCCACTCTAAGGGATATCAACACTGCCCAGC
ACAGGGGGCCCTGAATTTATGTGGTTTTTATACATTTTTTAATAAGATGCACTTTATGTCATTTTTTAATAAGTC
TGAAGAATTACTGTTT

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FIGURE 4308

MLRTAMGLRSWLAAPWGALPPRPPLLLLLLLLLLLLLLQPPPTWALSPRISLPLGSEERPFLRFEAEHISNYTALLL
SRDGRITLYVGAREALFALSSNLSFLPGGEYQELLWGADAEEKQCCSFKGKDPQRDCQNYIKILLPLSGSHLFTCG
TAAFSPMCTIYNMENFTLARDEKGNVLLEDGKGRCPFDPNFKSTALVVDGELYTGTVSSFQGNPAISRSQSLRP
TKTESSLNWLQDPAFVASAYIPESLSLQGGDDDKIYFFFSETGQEFFEFFENTIVSRIARICKGDEGGERVLQQRW
TSFLKAQLLCSRPDGPFNVLDVFTLSPSPQDWRDTLFYGVFTSQWHRGTTEGSAVCVFTMKDVQRVFSGLYK
EVNRETQQWYTVTHPVPTPRPGACITNSARERKINSSLQLPDRVLNFKDHFMDGQVRSRMLLLQPQARYQ RVA
VHRVPGLHHTYDVLFLGTGDGRHLKAVSVGPRVHII EELQIFSSGQPVQNLLLDTHRGLLYAASHSGVVQVPMAN
CSLYRSCGDCILARDPYCAWSGSSCKHVS LYQPQLATRPWIQDIEGASAKDLCSASSVVSPSFVPTGEKPC EQVQ
FQPNTVNTLACPLLSNLATRLWLRNGAPVNASASCHVLPTGDLLL VGTOQLGEFQCWSLEEGFQQLVASYCPEVV
EDGVADQTD EGGSVPV IISTSRVSAPAGGKASWGADRSYWKFLVMCTLFVLAVLLPVLFLLYRHRNSMKVFLKQ
GECASVHPKTCPPVLPETRPLNGLGPPSTPLDHRGYQSLSDSPPGSRVFTSEKRPLSIQDSFVEVSPVCPRRR
VRLGSEIRDSVV

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FIGURE 4309A

GGTGATTGTGTTGTTACAGTGCTGCTTGCTGAAGAGGACAAAGCTGAAGATGATGTAGTGTCTTACTTGGTATTT
TTGGGTTCCACCTCCGTCAGTGTACAAGTACTCGGAAGGTCAGTTCTGATACATTGGAGACCATTGCTCCTGGT
CATGATTGTTGTGAAACAGTGAAGGTGCAGCTCTGTGCTTCCAAAGAGGGCCTTCCCGTGTGTTGTGGTGGCTGAA
GAAGACTTTTCATTCGTCCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCAACCAGTGCTGGAAATCAGCAG
GCTTTGAACTTTACCGTTTTCTTGACCAATCAGGACCCCATCTGGGGATGTGAATCCCTTGATAAGAAGTTG
GTGCTGGCATTGAGGACCTGAAGCTGCCCACGGAGTGAATGTATTGGGGACAGATCAGAGTTTGCATGATGCT
GGCCCCGAGAGACATTGATGCATTTGCTGTGCGGTGGGACTGCTGAGGTTGACGTGGTTCCTGTTGCAGAAG
CCAGGTGGCCGCGGAGCTCTCAGTATCCACAACCAGGAAGGGCGACGCTGTGAGCTTGGCCTTGGAGCGAGGCT
ATCACAAGCTGCACCAGCTTCTAACCAGGAGAATGTGGAGAACCAGACTCCTGGAGCAGTTTATCCTATGAAA
TACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACATTAACTCTGAGTCTGATTAC
ATCATGAACACCCATTTCCTGGAGACGGTTGCACTGGACCAATTTTTAACTTATGAACATCCAACAGCAACTAA
TGAAAACAAACCTCAAGCAGATGGACAGTCTTATGCCCTTAATGATGACAGCACAGGATCCTTCCAGTGCCCCAG
AGACAGATGGCCAGTTTCTTCCCTGTGCACCGGAGCCACGGACCTCAGCGACTTCTTCTTCTGAAGAGACTG
AGAGCACTCAGTGCTGCCAGGGAGCCCTGTGTCACAGACTGAAAGTCCCTGTGATTTGTCAAGCATAGTTGAGG
AGGAGAATACAGACCCTTCTGTAGGAAGAAAATAAAGGCGTGGAAAGAAAAGGGGAAGAGGTGGAGCCAGCAC
CTATTGTGGACTCTGGAAGTGTATCTGATCAAGACAGCTGCCCTCAGAGCTTGCTGATTGTGGAGTAAAGGGCA
CGGAAGGCCCTTTCGTCTGTGGAAACAGAAATGAAGAACTGGAACAAAATCTTCTGGAATGCCACAGACCAGG
AGTCCCTGAGCAGTGGAGATGCTGTGCTTCAGAGAGACTTGGTCATGGAGCCAGGCACAGCCAGTATTCTCTG
GAGGTGAAGTGGGAGGCATTTCACAAACAAATGTGCTTACCCAGACACTGCAGGGGAAATGGAACATGGGCTCA
TGAACCCAGATGCCACTGTTTGAAGAATGTGCTTCAGGGAGGGGAAAGTACAAAGGAAAGATTGAGAAGTCTA
ATATTGGCAGAGCTGGAGCCTCTGACGTGCACGTGACAAGTAAGCCTGTGGATAAAATCAGTGTTCCAAAGTGTG
CCCCGTGCTGCCAGTTCCCTGGATGGTAACAAACCTGCTGAGTCTTCACTTGCATTTAGTAATGAAGAAACCTCCA
CTGAAAAACAGCAGAAACGGAACTTCACGAAGTCGTGAGGAGAGTGTGATGCTCCAGTAGATCAGAAATCTG
TGGTGATTCCAGCTGCTGCAAAAGACAAGATTCAGATGGATTAGAACCTTATACTCTCTTAGCAGCAGGCATAG
GTGAGGCAATGTACCCCTCAGATTTAGCCCTTCTTGGGCTGGAAGAAGATGTAATGCCACACCAGAACTCAGAAA
CAAATTCATCTCATGCTCAAAGCCAAAAGGGCAAATCCTCACCCTTGTGTTCTACAACTGGAGACGATAAACTTT
GTGCAGACTCTGCATGTCAACAGAACACAGTGAATCTTAGTGGCGATTGGTTGCAAACTGTGTGATAACATAG
TTAGCGAGTCCGAAAGCACCACAGCAAGGCAACCCAGCTCACAAGATCCACCCGATGCCTCCCACTGTGAAGACC
CACAGGCTCATACAGTCACCTCTGACCCTGTAAAGGGATACCCAGGAACGTGCGGATTTTGTCTCTTCAAAGTGG
TGGATAACAAAGGCCAACGAAAGATGTGAAACTAGATAAACTTTAACAATATGCTTGAAGTGGTTTTCACATC
CACATCCAGTTGTCCCTAAATGGAGAAAGAACTGGTGCCAGACCAGGCAGTAATATCAGACAGTACTTTCTCTC
TGGCAAACAGTCCAGGCAGTGAATCAGTAACCAAGGATGACGCACTTCTTTTGTCCCTCCAGAAAGAAAAGG
GAACAGCAACTCCTGAACTACATACAGCTACAGATTATAGAGATGGCCAGATGGAAATTCGAATGAGCCTGATA
CGCGGCCACTAGAAGACAGGGCAGTAGGCCTGTCCACATCCTCCACTGCTGCAGAGCTTCAGCACGGGATGGGGA
ATACCAGTCTCACAGGACTTGGTGGAGAGCATGAGGGTCCCGCCCCCTCAGCAATCCAGAAAGCTCTGAATATCA
AGGGGAACACTGACTCTTCCCTGCAAAGTGTGGGTAAAGGCCACTTTGGCTTTAGATTGATTTTGAAGTGAAG
GAAAACCTTCTGGTGGTTTCAGAAAGCTCTGCAGCTCAGGAACAAGATAAGGATAAAGCGGTGACCTGTTCTCTA
TTAAGGAAAATGCTCTCTCTTCAGGAACCTTGCAGGAAGAGCAGAGAACCACCTCCTGGACAAGATACTCAAC
AATTTTCATGAAAATCAATCTCAGCTGACTGTGCCAAGGACAAAGCACTTCAGCTAAGTAATTCACCGGGTGCAT
CCTCTGCCTTTCTTAAGGCAGAACTGAACATAACAAGGAAGTGGCCCCACAAGTCTCACTGCTGACTCAAGGTG
GGGCTGCCAGAGCCTGGTGCCACCAGGAGCAAGTCTGGCCACAGAGTCAAGGCAGGAAGCCTTGGGGGCAGAGC
ACAACAGCTCCGCTCTGTGTCATGTCTGTTGCCAGATGGGTCTGATGGGTCCGATGCTCTTAAGTGCAGTCAGC
CTTCTCTCTGGATGTTGGAGTGAAGAACACTCAATCCAGGGGAAAAGTGTGCTGAGCCAGAAAGAGATAATATCACACA
TGACGGTGGATGTTACAGGGGTTAATGCTCTACAAGGTATGGCTGAGCCAGAAAGAGATAATATCACACAACA
CCCAAGACATCCTGATTCCAAACGCTTGTGTGAGCCAAGAGAAGAAATGCCGTTCTAGGTTTGGCAGTGGCTCTAC
AGGACAAAGCTGTGACTGACCCACAGGGAGTTGGAACCCAGAGATGATACCTCTTGATTGGGAGAAAGGGAAGC
TGGAGGGAGCAGACCACAGCTGTACCATGGGTGACGCTGAGGAAGCCCAAATAGACGATGAAGCACATCCTGTCC
TACTGCAGCCTGTTGCCAAGGAGCTCCCCACAGACATGGAGCTCTCAGCCCATGATGATGGGGCCCCAGCTGGTG

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FIGURE 4309B

TGAGGGAAGTCATGCGAGCCCCGCCCTTCAGGCAGGGAAAGGAGCACTCCCTCTCTACCTTGCAATGGTCTCTGCCC
AGGACGCACCTCTGCCTAAGGGGGCAGACTTGATAGAGGAGGCTGCCAGCCGTATAGTGGATGCTGTCTATCGAAC
AAGTCAAGGCCGCTGGAGCACTGCTTACTGAGGGGGAGGCTGTACATGTCAGTGTCCAGCCCTGAGTTGGGTC
CTCTCACTAAAGGACTAGAGAGTGCTTTTACAGAAAAAGTGAGTACTTTCCACCTGGGGAGAGCCTACCAATGG
GCAGTACTCCTGAGGAAGCCACGGGGAGCCTTGCAGGATGTTTTGCTGGAAGGGAGGAGCCAGAGAAGATCATT
TACCTGTCCAGGGGCTGAGCCAGCAGCAAAATGCCAGACGTGAAAGCTGAAGATGAAGTGGATTTTAGAGCAA
GTTCAATTTCTGAAGAGTGGCTGTAGGGAGCATAGCTGCTACACTGAAGATGAAGCAAGGCCCAATGACCCAGG
CGATAAACCGAGAAAACTGGTGTACAATAGAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCC
CAGAATGTGAGAACTTCTGGATGTTGGACTGGGCAGAGAGTGACCTCAAAACAAGGTGACTTAAAGAGAAAT
CTGGGAGTGATTCTGACCTCTTTCACTCACCCAGTGATGACATGGACAGCATCATCTTCCCAAAGCCAGAGGAAG
AGCATTGTCGCTGTGATATCACCGGATCCAGTTTATCCACCGATGACACGGCTTCACCTGGACCGACATTCTTCTC
ATGGCAGTGATGTGCTCTCTCCAGATTTTAAAGCCAAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCT
ACAGCCATGGGATGGGAGCTGAGGGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGG
AGATGGACAGTATCACTGAAGTGCTGCAAACTGCTCTGCTCAAGGAGCTCCATGCGCTCTCTTTCTCCCTTCC
GGAGGCACAGCTGGGGGCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCACCGGAGTATGAGCTGGTGCC
CCTCTGGTGTGCACTACTCTGCTGGCTGAGTGCTGACTTTAATTACAGAAGTTTCACTCTAGAAGGCTTGACAG
GAGGAGCTGGTGTGCGAAACAAGCCATCCTCATCTCTAGAAGTAAGCTCTGCAAAATGCCGAAGAGCTCAGACACC
CATTCACTGGTGAGGAACGGGTTGACTCTTTGGTGTCACTTTTCAAGAGGATCTGGAGTCAGACCAGAGAGAAC
ATAGGATGTTTGATCAGCAGATATGTACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCAGCCATTCTCT
CTCCATTGACAAAATCCATCTCATTAAATGACAATCAGCCATCCTGGATTGGACAATTACCGGCCCTTCCACAGTA
CCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAGAAGAGAACTATAATTTCTGCCACATAGCCCCCT
CCAAGAAAGATTCTGAATGGAAGAGTGGAACAAAAGTCAGTCGTACATTCACTACATCAAGAATAAAATGTCTA
GCAGCAAGAAGAGCGAAAAGGAAAAAGATAAGATTAAGGAGAAGGAGAAAGATTCTAAAGACAAGGAGA
AAGATAAGAAGACTGTCAACGGGCACACTTTTCACTTCCATTCTGTTGTGGGTCCCATCAGCTGTAGCCAGTGTA
TGAAGCCCTTCAACAACAAGATGCCTATACTTGTGCAAATTGCAGTGCTTTTGTCCACAAAGGCTGCCGAGAAA
GTCTAGCCTCCTGTGCAAAGGTCAAATGAAGCAGCCCAAAGGGAGCCTTCAGGCACATGACACATCATCACTGC
CCACGGTCATTATGAGAAACAAGCCCTCACAGCCCAAGGAGCGTCTCGGTCCGCAGTCCTCCTGGTGGATGAAA
CCGCTACCACCCCAATATTTGCCAATAGACGATCCAGCAGAGTGCTCTCGCTCTCCAAAAGTGCTCTCCATACAGA
ACATTACTGGAGTTGGCAATGATGAGAACATGTCAAACACCTGGAAATTCCTGTCTCATTCAACAGACTCACTAA
ATAAAATCAGCAAGGTCAATGAGTCAACAGAATCACTTACTGATGAGGGAGTAGGTACAGACATGAATGAAGGAC
AACTACTGGGAGACTTTGAGATTGAGTCCAAACAGCTGGAAGCAGAGTCTTGAGTCGGATAATAGACAGCAAGT
TTCTAAACAGCAAAAGAAAGATGTGGTCAAACGGCAAGAAGTAATATAGATTGATGCAGACAGAGTTTCATC
ATGTCGGCACTCTCAAGATCATGAGTGGTGTGTACAGCCAGGGGATGATGGCGGATCTGCTTTTGTAGCAGCAGA
TGGTAGAAAAGCTGTTCCCTGTTTGGATGAGCTGATCAGTATCCATAGCCAATTCTTCCAGAGGATTCTGGAGC
GGAAGAAGGAGTCTCTGGTGGATAAAAGTGAAAAGAACTTTCTCATCAAGAGGATAGGGGATGTGCTTGTAAATC
AGTTTTCAAGGTGAGAATGCAGAACGTTTAAAGAAGACATATGGCAAGTTTTGTGGGCAACATAACCACTCTGTAA
ACTACTTCAAAGACCTTTATGCCAAGGATAAGCGTTTTCAAGCCTTTGTAAAGAAGAAGATGAGCAGTTCAGTTG
TTAGAAGGCTTGGAATTCAGAGTGCAATTTGCTGTAACTCAGCGGATTACCAAGTACCCAGTTTTATTCCAAA
GAATATTGCAGTGATACCAAAGACAATGAAGTGGAGCAGGAAGATCTAGCACAGTCCTTGAGCCTGGTGAAGGATG
TGATTGGAGCTGTAGACAGCAAAGTGGCAAGTTATGAAAAGAAAGTGCGTCTCAATGAGATTTATACAAAGACAG
ATAGCAAGTCAATCATGAGGATGAAGAGTGGTCAGATGTTTGGCAAGGAAGATTGAAACGGAAGAAGCTTGATC
GTGATGGGAGTGTTGTTTCTGAAGAATGCAGCAGGAAGGTTTGAAGAGGTTCAAGCAGTCTTCTCACTGACATTT
TAGTTTTCTTCAAGAAAAAGACCAGAAGTACATCTTTGCATCATTTGGACCAGAAGTCAACAGTGATCTCTTTAA
AGAAGCTGATTGTGAGAGAAGTGGCACATGAGGAGAAAGGTTTTATCTGATCAGCATGGGGATGACAGATCCAG
AGATGGTAGAAGTCCATGCCAGCTCCAAGAGGAACGAAACAGCTGGATTTCAGATCATTCAGGACACAATCAACA
CCCTGAACAGAGATGAAGATGAAGGAATTCCTAGTGAGAATGAGGAAGAAAAGAAAATGTTGGACACCAGAGCCC
GAGAATTAAGAAACAACCTTACCAGAAGGACCAAAAAATCTACTCTTGTGGGAAGAGAAGGAGATGATTTTCC
GGGACATGGCTGAGTGACGACCCCCCTCTCCAGAGGATTGCTCCCCAACACATAGCCCTAGAGTTCTCTCCGCT

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FIGURE 4309C

CCAACACAGAAGAGGCTCTCAAAGGAGGACCTTTAATGAAAAGTGCAATAAATGAGGTGGAGATCCTTCAGGGTT
TGGTGAGTGGAATCTGGGAGGCACACTTGGGCCGACTGTCAGCAGCCCCATTGAGCAAGATGTGGTCGGTCCCCG
TTTCCCTGCCCCGGAGAGCAGAGACCTTTGGAGGATTGACAGCCATCAGATGAATGCTTCAAAAGGAGGCGAGA
AGGAAGAGGGAGATGATGGCCAAGATCTTAGGAGAACGGAATCAGATAGTGGCCTAAAAAGGGTGGAAATGCTA
ACCTGGTATTTATGCTTAAAGAAACAGTGAGCAGGTTGTCCAGAGCGTTGTTTCATCTCTACGAGCTCCTCAGCG
CTCTGCAGGGTGTGGTGCTGCAGCAGGACAGCTACATTGAGGACCAGAACTGGTGCTGAGCGAGAGGGCGCTCA
CTCGCAGCTTGTCGCCGCCGAGCTCCCTCATTGAGCAGGAGAAGCAGCGCAGCCTGGAGAAGCAGCGCCAGGACC
TGGCCAACCTGCAGAAGCAGCAGGCCAGTACCTCGAGGAGAAGCGCAGGCGCGAGCGTGAGTGGGAAGCTCGTG
AGAGGGAGCTGCGGGAGCGGGAGGCCCTCCTGGCCACGCGCAGGAGGAGGTGCAGCAGGGGCAGCAGGACCTGG
AAAAGGAGCGGGAGGAGCTCCAGCAGAAGAAGGGCACATACCAGTATGACCTGGAGCGACTGCGTGCTGCCCAGA
AACAGCTTGAGAGGGAACAGGAGCAGCTGCGCCGGGAGGCAGAGCGGCTCAGCCAGCGGCAGACAGAACGGGACC
TGTGTACAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCTCTGAGGAGCCCCCT
CGCCATCTGCACCTTCCATAGCCAAATCAGGGTCACTTGGACTCAGAACTTTCAGTGTCCCCAAAAGGAACAGCA
TCTCTCGGACACACAAAGATAAGGGGCCCTTTTCACATACTGAGTTCAACCAGCCAGACAAAACAAAGGACCAGAAG
GGCAGAGCCAGGCCCCCTGCGTCCACCTCTGCCTCTACCCGCTGTTTGGGTAAACAAAGCCAAAGGAAAGAAAGG
AGAAAAAAGAAAGAACAAACAGCCGCTCTCAGCCCGGTGATGGTCCCGCGTCAGAAGTATCAGCAGAGGGTG
AAGAGATCTTCTGCTGACCCCTCTTCTCTCTGCTGAGGCAGCTGCCCTCTGATCCTGGCCAGCCCACCTCTCCTG
CTGTCCCCGCGTGCACAAGTCTCTTACACTGGACGCCCACTGCTCCTCAGCGTCCAGTCTCTCTGGGCGGCCCA
GGTCTTGACAATAAGCAACAGATGATATTGAGTGTGGGTGGGGAAGGAGGCCAGACTCTGCTTCGGCCATGA
TTTGTGACTGCCCAGGACTCTCAGGTTGGGCTGGCCCTACTCAGGATTACACTGAAAGTAATGGCCTCGTAAGTA
CAGGTGATGGTTTTGGACACGTCAGGAATTCCTAAAGGCTGAAAGAGTGTATCCAAGTAAGGTCTGAACCTCCGA
ATGCCTTTTATTTGGGGGAACACAAAACCAACAGCAGATGTTTTGGACTTGATCTGTGTACGTACATGGGGACC
TGTCTGCATATACACACGGGAATGCCAGAAGAAGGCCAGTCTGCACCAGGCGTCTGGTCAACTTAGCACAAGG
GCAGTGCCTGGACGGACCCGGAGCCCCCGCATATCAGCAGTTCACCCAGTACTCCTCAGAGACTGGTTTTCCCTCT
AAACCCATCCCGGGCACATACCACCCGTGTTTTGCATGTATTTCTCATTTTCATTTTAGGGATGACAAACATTTGT
GAAACCAGTGAGAGAAGGCTTGATGTGTATAAAGACGTGATGTGCACCACCTCGATCTCGGTGTTTCAGGCACT
AAAGCAACAAAACAACCCATAGTATCTCATTCTGTCATCAGATCCAGAAGAAATATCCTGGTTTTCCAGCATGTT
TACCCACATGTTTTGGCCATGGATAAAGTGAAGAGGCCTACTCACCATTATCCCTGCAGCGTGACACCTTTTGAT
TGTCATGACCACTCAGAAGGGGCCACGGCCTCCTGGCTGTGTTCTTGAGCCCCGTCGTGCCTCTCCAGACAG
CAGCTGTCTGGCCCTTGCTGGGTGAGGGCACACCACTGCCAGGGGTCAGCCTCGCACCCAGGCCAGGCAGAAGCT
GTGCTCTGAAGCTAGGACAGCTGGCTGAGAAGTGGGTTCAGGCGAAGGGTGAAGCCATGTGTAGCAGTTCTTGCC
AGTGCAGATCTGCAGAGGAGCTGGCCCGAAGGCGTGGTTGTGAAAGCGCCCTTCTTATGTTAGGAGGCTTGCC
AAAATTGGATTCTTCAAAAATACATGTAAAGGTCTGTTGTTGAATTGTACTCTGCCCTGGAAGCAGATACAGA
TGGCTGCCTGCTGCTCGGCTTTGCTTTTGCTTTTCCACCGTGTTCATCTTTGTTCACTTGAGGCTTTCCCCA
GCTGGTGTGTGCAGGACAGTTCATGGTAATGTTGCCCTCTGAGGCCCGGTACACCAGAAGGGAGGCCCTGAAAA
TTTTGTGCTTCCAACGTGGCCTTCAATTCTTGCTTTTTTGCCCTCGGAAGCATGGGGCTTTTGAGCACACTTAA
AAAAAGAAAA

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FIGURE 4310

GAAAAACAAAAGAATCTTTGTTTTACCCCGAAAGAGAGGCAGAGGCAGAAAGTCTTCTCTGCTTTTTGCATCT
CTAAGAGGCTGAAAAAGAGAATGGAAGTGCTGGGGCATTITGGCCAGGGCAGTAATGGATATTTGGAGTTGGCAC
TTCCCTCAGCTAGAGGAGTCTCAGTGTGTCTGAGAAAATGGCAGTCAGCCATCCAGGATTTTAGGAGCAACGCCA
CTGCTCTGTGCCACATCAGAAATCAGGCATGGCCCCAACCTGAAGGAACCTGTAGCTTAATGGGGAAGCACACCA
AGAATAAAAGAGCCTCCAGAACATGTGGTGCCTGTGGTCCTGAGACAGCAGGAAATGGCTCTCAGGCCAGAGTTG
CTGGAAGAACCCATGTGGCAGGATCGGTGGGAGGCAGTTACAGAGGGAAACGCCCATCCAGCAACTAGGGGAGG
CCGCCACTCCTCTCGTGGATGGATGATATTCTTGCTTGGGGATGTTGAGACAGCTGCACTCTGCATAGTTCTCTGA
TTTGCTCTCTACTGCTGATGAAAAACCTCTCTTTCTCTATAGCTGCTGCTTATATTGGAAGGCTTTTGGTTATT
CAGCACACTCACTCCTGAGCTTATTTTCAGTGATATTCTTGCTTATTTTCGAAACATGGATGCTTGTGGCAGATGG
AGAGCCTGGGTGTACACAGATCTGCCTGTGTTTTGAAATGCATACCATGTTGCCGTTTGTGTTGATTGATTGATCT
TGGACCACGAAAGAAAATTATACTGACAGCTTCCAGGGTAGGGGGCAGTTGTAGCTTTCTGCAGATGTTGCCAAA
TATATTGGGGGTGGGGAGCAGCAATGCCATGTGTTGCTTTTTATGACATAAGGAGGGATTCCACCCCATCCCA
ATAAAATCGGTGCTTTGACAAAGGAGGGTTCCCAGGCAGCTAAGAGAACCCAGAGTAGATGATCCTCTTTATCTC
TGGTTTAACCTGTGACTAGGATTCTTGGTGTAAGCTCGGCTTTTCCACTTATCCTCTAACCAGGACAGGCTTCTA
TAATCTCTTTGCCTTAAAAATAATTATCTGCATCCCTGTGTAGAGCAATCTTAAGCAGCTCTCCTTGTTTCTTCAG
GGAATGGGAATTCTTTTCTAAGTCGCCCCATCAAAGGTACTATTGGTTTTTTACAACGCCGGCGTTTGTGTATGT
AGTAAAGTATTAACAGCATTAAAGGCGATATTTTAAACATGTTTATAGATACTACTTGGGGGAGGGCAGCTAAT
GAAACCTTCAAGCTCTATGCAGTCCACAGACGTGAGCTCTGTAGAGTTCGCAGAGGTGGGTAAGTACCCAGCCAG
CACACCCAGTTGAATTCAGCCAGGATTTATTGAGTTGGCATCACAGACGCTGACAGCCTCCAAGTGAAAACCCCT
CTCTTGAATATGTACAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTCTTCCCCAGTCCCTGAGG
AGCCCCCTCGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTTCAGTGTCCCCAAAAA
GGAACAGCATCTCTCGGACACACAAAGATAAGGGGCCTTTTCACATACTGAGTTCAACCAGCCAGACAAACAAAG
GACCAGAAGGGCAGAGCCAGGCCCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTTAACAAAGCCAAAGG
AAAAGAAGG

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FIGURE 4311A

TCTGTTAAATGTTCCGAAGCCACTGCCAAAACAACTGTGGGAGACCAAGGAGATTGAGTCCCTGTCAGGACGCC
TCGATCCTGTGATGTTGGAGGTGGCAATGCTTTTTCCACATAATGGTCAAAACCTAGGCCTCTCACCCCTTCTTGGG
GACCTTGAACACTGGAGGGTTCATTGCCAGATCTAACCAACCTCCACTACTCGACACCCCTGCCAGCCTCCCTGGA
CACCACCGACCACCACTTTGGCAGTATGAGTGTGGGGAATAGTGTGAACAACATCCCAGCTGTATGACCCACCT
GGGTATAAGAAGCTCCTCTGGTCTCCAGAGTTCTCGGAGTAACCCCTCCATCCAAGCCACGCTCAATAAGACTGT
GCTTTCCCTCTTTCCTTAAATAACCACCCACAGACATCTGTTCCCAACGCATCTGCTCTTCACCCCTTCGCTCCGTCT
GTTTTCCCTTAGCAACCCATCTCTTTCCACCACAAACCTGAGCGGCCCGTCTCGGCGTCCGGCAGCCTCCCGTCAG
CCCTCTCACGCTTTCTCCTGGCCCTGAAGCACATCAAGTTTCAGCAGACAGCTGTCTTCAACCAGCCCCACTGGC
CCCATATCCTACCTCCCAGATGGTGTCTCAGACCGAAGCCAACCTTTCTTTCTGCCCACAGAAGCTCAAGCCCA
GGTGTGCGCGCCACCCCTTACCCTGCACCCACAGGAGCTCACCCAGCCCCCTCCTGCAGCAGCCCCGCGCCCCCTGA
GGCCCCTGCCAGCAGCCCCAGGCAGCCTCCTCACTGCCACAGTCAGACTTTTCAGCTTCTCCCGGCCAGGGCTC
ATCTTTGACCAACTTCTTCCCAGATGTGGGTTTTGACCAGCAGTCCATGAGGCCAGGCCCTGCCCTTTCCTCAACA
GGTGCTCTGGTGCAACAAGGTTCCCGAGAAGTGCAGGACTCTTTTCATTGAGACCAAGCCCGTATTCCAAGT
CGGGAGTCTCCCGAACACCATCCTGCCAGACTCCAGCACCAGCCTGTTCAAAGACCTCAACAGTGCCTGGCAGG
CCTGCCGTAGGTGAGCCTGAACGTGGACACTCCATTTCCACTGGAAGAGGAGCTGCAGATTGAACCCCTGAGCCT
GGACGGACTCAACATGTTAAGTACTCCAGCATGGGCCCTGCTGGACCCCTCTGTTGAAGAGACGTTTCGAGCTGA
CAGACTGTGAACAGAAGGCAGTGGAACAGAAGAATGTTTTCTGCAACAGCCAAAATAGAATGGAATAGAATGAA
GCCAGCTGATACCACGGGCTTTTCGTTATCTTGACATAGAAGGAAGCAATGCCACGGCTCCAGGGTTTCAGATGAG
ATCCCATCTCAGACACTGTGGCTTCTCCAGATCACACAGCTTTGTACTGCCTCTCCCGCCTGTGGCCAAAGTCG
TGTTGCAGCAGGCAGGCTGCTTGGAGCTTCCCATGAAGTGGAAAGCTCACCTCCACTGCATCTTTTTACTGGCCA
TCCAGTCAGCCGATGTGTAAGAGTAGGAAATACTGTGTCACTGGAGGCCTCCGTAGCATTGTGTAGTGTGCTCAG
AACCCTGATCTCCGTCCGCACCGAAGCGGGCCCGAGTGGGAGGCTCGGCCTGGGGCGGGCGCACCGGAGAGG
GCACCTCGATGCCTGCTCTGACCTGACCCAGAGGGCGAGGCCCTCCAGCGGGGGACATTCCCAGGCTGAGTGGAC
CCCACGGCTCTCTCCACGCCTGGATTACGACATGAAGTTTTTACCACAAGCCCGAGGGCAGGCTTGAGTTAGGC
AGACTGAAGGCTAATTTTCATTTTCTCCAGCTGGTTTTCTGCTGCTTCAGAAAAGTACACCTTTTCCTTATGGAC
CAGAGGAAGAGGAAGACCATTTTATCAGTCACTGAAAAGAGTCCCCTGGCACTGATGAGCCTGAAGAGAACTGTG
CTCTCCTCGGGGGCTGGGGAAGGAAGACAGGGACTGCAGGTGTCTCATACTCAGTGGCCTCCAGACAACTCCA
GACAAGCACAGACCTCCCCACTAAGAGCAGCCAGAGGGAGCTGGTGAGGCCCTAACCCACCCACCGAGCAACTG
AGCTTCCCCATCCCTCCCCAGAGCTGTGTCTCTGTGGGTGGGAGTCTAATGTACCCCCCTAGACCGTAAGCTC
CTTGAGGGCAGGGACAGTGCCTTATCATTGTTGAACCCGTAGCACCTAACACGTGCGTGGCAGCACAGTCGTGTG
CTGGAGTGAGTGTGCGAACCCTGCGTGCAGCGCATGATGAATGAGTGCCTCCGCCATGCCGTAAGGCAGGCTC
ACCTGTAGCTATCCCTTCCCTGCCAGATCTTCTCAGAGCTTTAGCTTTTCTAGCACTCGTGCCTATGGTGAAGC
ATGCACTTTAATATGCTTTTAACTAGGTGACCAATCACAGTGAAGCCGGGCACTGCATTCTCCTTGGGCTGT
GCTCCACGCGGGTGGGTGGGAGCTGTCTCTGAGTACATCCGGAAGGGCTGAGCAGGTGAGTGCCCTGAGCATCC
TGGCTGGGCCCCACCCAGGAAGATCTTCCTTCTCAGATCCACGTTTGGCTCTAAATTGCTTCAAGTAGAGATTCA
TTCTTTGAGGTTGAAAAATAGTTTATAGTAAAACGAAGGCCTAATTCATGGAAGCATCATTAGTCATCAATACC
TTCTCATAAAATAGATGGGCCAGATTTCACCACCGCCTGCCTCCTCTAACTTGGGTGATGCCAGTAGGTTTGAA
GGGGCAGAGCATTGCAGGGGGAGGGGGGGTCTAGGCTGTGAGAGGACAGGGTGGAGAGGAGGAGAACCCTGAA
GGAGAGACGGAAGATGCCAGGACCTTGCTTGGACAGCCATTGCCCTTCCAGGAGACCTTGGAGTGTACTGAGGG
TTGCTGGACTGTTCCACCCAGAGGAGCAAGGCTGTACAATGAGGGTCTGAATCTGGCACACCTGTCCCTTATGTA
AAAGGAGTCGTGGTCAAGACCTGGGCTGGTTAGCCTCTCCGACCTCATTCCATTTCTATCTTCTGACCTTG
CCTCTCATCTTTTAAATAACCCCTCATGGGGTGCCCTCCACCTTCTCTGGAATCCAAGTATCCTGTTTCACAT
TTGCCCCAAATCTTTGCTGTGGAATTGGGAAATCAACCAGAGTCCCTCCTCGCCTGATTTCCAGCTCAGGAAGGG
CCTGCTGGCCTGCCCTGTTCCAGTTACACTTTTCAGATCCCTTTGTGCTCAAGATCTCAGAGGGGGTGGCTTTT
GTTAAAGAGCCTTCAGTCGCAATGCTACCCAGCACCCTATGTGCCAAAAGAAACCAGCTCCTGTGTCAAAGGGCT
TCCAAACCTGATCTCACTCTCAACAGGCGATGGTGTGATGTTTCAAGAATTGTGTTTTTATAAACAGAGGTCT
CAGCATAGTCACTCTCACATAGTGCCCTTACCCATGGGTATCGTCATATCCGGGTCCAGTTTCAGTTTGTCTGCA
CAGCAGCCACCCCTGCCTGGCAACAGAGACCCCAAGACCTACACAGTGAACCCCTACTGCCCAAAGGCGTTCTCCA

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FIGURE 4311B

GGTGACTTGTGAAAACAGACCTCCGGGGAAGTGATTTATTGGGGGTGTACACTGGGGGCAATATGGTTTAGCACT
GAATTCAATTTGTCCTTAGGTCTATGAGTGAGTCCGATCTTTTCTTGTAAGGTTTTGGGCATCGTACAACCCA
CTCIGCCTAGAAGGTGTGGAGGACTCACCACGGGCAGGGTCGCCCTGGCCCACAGCACGTGAGCCTGCACTCACT
GCGGCCTTTGTAAACAAAACCAGTTGTGGTCCTCAGCATTGAAGCAGCTGCATACTTCAGAGTAAACTATTTTTC
ATTATTTAGTTTTGTCAAGAAGAAATCGACCATTTGTAATACTCTCACTTACAGCAGTTAAACAGCATAGAACTAAA
AACCTGTCTGCATTTCCATTTTTTCTTTCTGTATGGTTGTGGGTTTTAGGACATAGGGGGTTAGGAGAAGGGGT
TCTTGATCATGTGATGAATTCTCCTTTGTCCTGTTTCTCCTGTTTCATTTCTCCTCCGCTGCTGTATATTACCT
GAGCTGGTGTGTATCTTCAAGTCCATATGCGTATTTGCAGACCTTTCTGTTCCCACTCTTGTTGGCTCTTCTG
ATTTATGCACAGATGGTTCCCAGCATGTGTCCAGTGCTTCATGGATGGGACCATCCCAGCAACTAATCAGACTTC
CTGCCAGTGTCCTAACCCCCAGGGCACCTGTTCAACCATATTTAAAAATTGGAATTTGTATAAAGTTGCTTCCA
AGTTTTATAATGCATCATTTTACATCTTTTGTAAATAAAAGCATCACAATGAGGTTGTCTCTGC

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FIGURE 4312

TTTTTCTGGTAGAAGGCGGGGTTCTCCTCGTACGCTGCGGAGTCTCTGCGGGGTGTAGACCGGAATCCTGCTGAC
GGGCAGAGTGGATCAGGGAGGGAGGGTCGAGACACGGTGGCTGCAGGTCTGAGACAAGGCTGCTCCGAGGTAGTA
GCTCTCTTGCCCTGGAGGTGGCCATTTCCTTGGAGTGTCTGCTGAGGAGCGAGGGCCCATCTGGGGTCTCTGGAA
GTCGGTGCCAGGCCTGAAGGATAGCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGAACGAAGGGC
GTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCCATGGCTTTTCCCCATCGGCCGGACGCCCCCTGAGCTGCCTGA
CTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGCTCATCTATCTGCTGGAGCAGCTTCTTGAAAAAAGGATTT
ATTCATTGAGGCAGATCTCATGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACCGAAGTAGA
CAAGCTATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCAT
CAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTGGCCGAACTCGCAAATACAAAGTGAT
CTTCAGCCCTCAAAAGTTCTATGCGTGTGAGATGGTGTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGA
TGAATGGGCCTTCTCTTTGCTGCCTCTTGATGTGGATCTGCTGAGCATGGAACCTACCAGAATTTTTAGGGGATTA
CTTTCTGGAAGGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTATGGACC
CTTTCCAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAGGAACCTGGAGGAGGAGGA
GGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTCTCTTGGACAGAGATGTGGACTTTGTGAC
AGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCATCAAGTGTGGGAGTGTGCACTT
TGGCCCAGAAGTCACATCCTCTGACAAGAGCCTGAAGGTGCTACTCAATGCCGAGGACAAGGTGTTTAAATGAGAT
TCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGAGCCAGAAGGCCCGGAACCTGCAGGCCAGTATGATCG
CCGGAGAGGCATGGACATTAAGCAGATGAAGAATTCGTGTCCAGGAGCTCAAGGGCCTGAAACAGGAGACCG
CCTGCTGAGTCTCCATATTGGGGCCTGTGAATCCATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAAT
CAAGACTGAGCATGCACTGCTAGAGGGGTTCAACATCCGGGAGAGCACCAGCTACATTGAGGAACACATAGACCG
GCAGGTGTGCGCTATAGAAAAGCCTGCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGATCCCCAAGGA
TTACCGATCTCTGAAAAACAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAG
AGCTGGGCTCCTAACGGAGCAGGCCCCCGGGGACACCTCAGAGCCGTGGAGAGTAAGTGAGCAAGCTGGTGAC
CGACAAGGCTGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAGAGGAGCAATTTCTGTCCTCAGCAA
AAAGCTGAATTTGATCCACGTGTGGACGGCGAGTATGATCTGAAAGTGCCCGAGACATGGCTTACGTCTTCAG
TGGTGCTTATGTGCCCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCGAAGCTGGCAGGGCCTTGATGA
GGTGGTACGGCTGCTCAACTGCAGTGACTTTGCATTACAGATATGACTAAGGAAGACAAGGCTTCCAGTGAGTC
CCTGCGCCTCATCTTGGTGGTGTCTTGGGTGGTTGTACATTCTCTGAGATCTCAGCCCTCCGGTTCTTGGGCAG
AGAGAAAGGCTACAGGTTCAATTTTCTGACGACAGCAGTCACAAACAGCGCTCGCCTTATGGAGGCCATGAGTGA
GGTGAAAGCCTGATGTTTTTCCCGGCCAGTGTGACATCTTCCCTGAACACATTCCCTCAGTGAGATGCAGGCATC
TGGCACCCAGCTGCTATAACCAAGTGTCCACCAACTACCTGCTAAGAGCCGGGAGCATGGAACGTGTGGGATTT
AGAGAACATTATCTGAGAAAAGAGTTCACTTCCTGCTCCAGGATATTTCTCTTTTCTGTTTATGAAGTACAACC
CATGCTGCTAAGATGCGAGCAGGAAGAGGCATCCTTTTGCTAAATCCTGTTTGAATGTCATTGTAAATAAAGCCTC
TGCTCTCAGATGTAAAAA

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FIGURE 4313

MAFPHRPDAPELPDFSMKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVENKPAL
SSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIFSPQKFYACEMVLEEGLYGDVSCDEWAFSLPLDV
DLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGFFPNCYGIGRCAKMAYELWRNLEEEEDGETKGRRPEI
GHIFLLDRDVFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGF
LSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALLEGFN
IRESTSYIEEHIDRQVSPIESLRMLCLLSITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGD
TLTAVESKVSCLVTDKAAGKITDAFSSLAKRSNFRAISKLNLI PRVDGEYDLKVPRDMAYVFGAYVPLSCRII
EQVLERRSWQGLDEVVRLNCSDFAFDTMTKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTT
AVTNSARLMEAMSEVKA

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FIGURE 4314

GACGGGACGCGACGCCAATCGCGACGAGGCTTCGCCCCGTGGCGCGGTTTGAAATTTTGCGGGGCTCAACGGGCTC
GCGGAGCGGCTACGCGGAGTGACATCGCCGGTGTTTGCGGGTGGTTGTTGCTCTCGGGGCCGTGTGGAGTAGGTC
TGGACCTGGACTCACGGCTGCTTGGAGCGTCCGCCATGAGGAGAAGTGAGGTGCTGGCGGAGGAGTCCATAGTAT
GTCTGCAGAAAGCCCTAAATCACCTTCGGGAAATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGGTTACAAA
GAACTGAGGTGGTAAAGAAGCATATCAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAA
GACTCATCAAAAGCATATCCGTCTGTCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTC
AGGTCCGTGGCAGCCACAGGGTCTCTGGTGATCTGTCTGGGGCCTGAGACTTAGAAAGCAACGTTGACTTGGGC
CTGCAGATGGAAGGCTTCCTCGTAGGGATGGAGCTAGACGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAA
GATTGCGCACCCAAGTGAATTGATGCGAAAACAGAAAAAGGAGAGAAAAACAGGAAGTGAAGCTACTTCAAGAG
CAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCACTATGATATTGACAGTGCCTCAGTGCCAGCTTAGAA
GAGCTGAACCAGTTCAGGCAACATGTGACAACTTTGAGGGAAACAAAGACATTTCTTTGCGGGAGGCTAGAGGGC
TAGCCTCTGTGCTGCTGCTTTGCCGTGAGTGACACTGGCTTTCTATGCTGTAGCTGGAAATGCAGAAATCACAAA
ATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGG

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FIGURE 4315

GGCACGAGGGGCGTTTCCTCCAAGGCTGCCCACCAGAAGGACCTGCCCCGAGAGGGTAGAGGGCATAGGGTCAAGA
TCAAGATAAGGCAGCTCCAGCCCCCTGGAAGGCCAGAGACTTGCCAGTGTCCCACTAGCGGGCTCTTCGCAAGAAT
CCCCCGGGGCGCCGCGAGCCAGGCGGGCGGGCCGAGAGGGCGCTGCTCGGGCATGGCGGAGGAGCGGGCGGGGG
CCTGGTTTCGGCTTCGGTTTCTGCGGCTTCGGGCAGGAGCTGGGCTCCGGACGCGGGCGCCAGGTGCACAGCCCCA
GTCCGCTGCGGGCGGGCGTGCACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCGTGACCCGTGAGC
ACTCCCCGCCCCGTCCCCACTTATTCCAGCCGCGCTCCCCAGTCGCCCTCCCCGCACCGCTGTGGCCAGTCCAGTT
TGTCTCCCCCGTTCAGGCCGCCAGCCCCACATTCTGGGTTGGTCCCCAATTTCGACCCCTTCCCAGGAACACCCCG
CTCCCCCATCCCCCGCGCTCCATTCTGGCCACCGTGTCTCAATCCGCCCCGAGGTGGAGGCCGCTTGGAGCT
GTCGGGCTCAGCCAGCGGCGGGCGGGCGGCTGCAAGGACGCGTGGGCCTCGGAGGGGCTCCTCGCGGTGCTGCG
CGCCGGGCGGGGCGGAGGCGTTACTGCAGGTCTGGGCGGCCGAATCGGCGCTGCGTGGGAGCCATTGTGGGC
CCAGAATGTGGTGCCGAGGCCGAAGGGGAAGACGATCCGGCCGGTGAGGCCAGGCTGGGAGGCTACCCCTGCT
GCCCTGCGCCCGTGCTACGTGAGCCCGCGGGCGCCCTTCTACCGGCTCTGGCTCCGGAGCTGCGGGCACGCCA
GCTGGAGCTGGGCGCCGAGCACGCGTTGCTGCTGGACGCTGCTGGCCAGGTGTTCTCCTGGGGCGGGGCGAGCA
TGGACAGCTGGGCCATGGGACCGTGGAGGCAGAGCTGGAGCCACGGCTGTTGGAGGCGTTGCAGGGCCTAGTCAT
GGCTGAGGTGGCCGCGGGGGGCTGGCATTCTGTGTGTGTGAGTGAGACTGGGGATATTTATATCTGGGGCTGGAA
TGAATCAGGGCAGCTGGCCCTGCCCACCAGGAACCTGGCAGAGGATGGAGAGACTGTCGCAAGGGAAGCCACAGA
ACTGAATGAAGATGTTTCTCAGGTGAAGAGAACGGGTGGGGCTGAGGATGGAGCCCCTGCCCCCTTCATAGCTGT
CCAGCCCTTCCCGGCATTACTGGATCTCCCCATGGGCTCAGATGCAGTCAAGGCCAGCTGTGGATCCCGGCACAC
AGCTGTGGTGACACGAACAGGGGAGCTCTACACCTGGGGCTGGGGTAAATATGGACAGCTGGGGCCACGAGGACAC
CACCAGCTTGGATCGCCCTCGCCGTGTGGAATACTTTGTAGATAAGCAACTCCAAGTAAAGGCTGTCACCTGTGG
GCCGTGGAACACCTACGTGTATGCTGTGGAGAAAGGGAAGAGCTTGACATGTTGTACGTATATGTATATGCAACACC
TGTGAGACCCCCATTTCAGGTCAAGGAAAACCATTTGCCCTGCACCCCAAGGGCCCCATATTTGCCCTCCCCATCAC
AGTCCTGCCCTTCACCTCAAGCACGGTCCTAACTTGTCTGCACCTTTAGAAACACCTGGAGAGCATTGAAACT
CTGCTGCCTAAGGTCAGCATCAATCAAAACAATGAAATCAATGAAACAATGAAACCAGAGCTTCTAGGTGTGTGG
CCTGGATAGTGGTAGATTCAAAGCTCCACCCACCTCATCCCAGGTACATTTGATGTGCAGCTGAGATTGGGGCAC
ATTCCAGGTATCGTCTTCTGTCACTCATTCCCTGCTTTCGTTTGAATTTTACCATTCTGTATGCAGCCTTAT
ACGACATAGTTGTGTTTGTCTTTGAGTGTTAGATAAATGGAATCCTGTGTATGTGCTTTTGTGTCGTTTTGTCA
CTCAGCATTGTATAATCCATCCTTGTGGGTCTGGAGTTCATTTTTAATGCTATATGGTGTCTGTTGTATGAA
TAATACCTCAAGTGATACAAAAA

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FIGURE 4316

MAEVAAGGWHSCVSETGDIYIWGWNESGQLALPTRNLAEDGETVAREATELNEDGSQVKRTGGAEDGAPAFFIA
VQPPFALLDLPMGSDAVKASCGSRHTAVVTRTGELYTWGWGKYGQLGHEDTSLDRPRRVEYFVDKQLQVKAVTC
GPWNTYVYAVEKGKS

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FIGURE 4317

CGCCCCGGGCCGAGGTGGACGGAGCCTCCCGGCTCGCTGCTCCCGCCGGCGAGCGAGGCTGCCCTTTCTTCGCA
GCGTGATTTATTTTCTTCTTTTTTCTGAACTCTTCTTCCAGGGAGAGGCTAGTGGTAACAGGCCGAGCTGGATG
GATGGGTATGGGGAGAGGGGCAGGACGTTACGCCCTGGGATCTTGGCCGACCCTCGCCTTCTTCTCTGCAGCTT
CCCCGCAGCCACCTCCCGTGCAAGATCCTCAAGTGCAACTCTGAGTTCTGGAGCGCCACGTCGGGCAGCCACGC
CCCAGCCTCAGACGACACCCCCGAGTTCTGTGCAGCCTTGGCGAGCTACGCCCTGTGCACGCGCGGACGGCCCCG
CACCTGCCGGGGTGACCTGGCCTACCACTCGGCCGTCCATGGCATAGAGGACCTCATGAGCCAGCACAACTGCTC
CAAGGATGGCCCCACCTCGCAGCCACGCCTGCGCAGCTCCACCCGGCCGGAGACAGCCAGGAGCGCTCGGACAG
CCCCGAGATCTGCCATTACGAGAAGAGCTTTCACAAGCACTCGGCCACCCCCAACTACACGCACTGTGGCCTCTT
CGGGGACCCACACCTCAGGACTTTCACCGACCGCTTCCAGACTTGCAAGGTGCAGGGCGCCTGGCCGCTCATCGA
CAATAATTACCTGAACGTGCAGGTACCAACACGCCTGTGTGCCCCGGCTCAGCGGCCACTGCCACCAGCAAGCT
CACCATCATCTTCAAGAACTTCCAGGAGTGTGTGGACCAGAAGGTGTACCAGGCTGAGATGGACGAGCTCCCGGC
CGCCTTCGTGGATGGCTCTAAGAACGGTGGGGACAAGCACGGGGCCAACAGCCTGAAGATCACTGAGAAGGTGTC
AGGCCAGCACGTGGAGATCCAGGCCAAGTACATCGGCACCACCATCGTGGTGCGCCAGGTGGGCCGCTACCTGAC
CTTTGCCGTCCGCATGCCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGGTCTCTACCTCTGCCT
GCGGGGCTGCCCCCTCAACCAGCAGATCGACTTCCAGGCCCTCCACACCAATGCTGAGGGCACCGGTGCCCGCAG
GCTGGCAGCCGCCAGCCCTGCACCCACAGCCCCGAGACCTTCCCATACGAGACAGCCGTGGCCAAGTGCAAGGA
GAAGCTGCCGGTGGAGGACCTGTACTACAGGCCTGCGTCTTCGACCTCCTCACCACGGGCGACGTGAACCTTAC
ACTGGCCGCTACTACGCGTTGGAGGATGTCAAGATGCTCCACTCCAACAAAGACAAACTGCACCTGTATGAGAG
GACTCGGGACCTGCCAGGCAGGGCGGCTGCGGGGCTGCCCTGGCCCCCGGCCCTCCTGGGCGCCCTGGTCCC
GCTCCTGGCCCTGCTCCCTGTGTCTGCTAGACGCGTAGATGTGGAGGGAGGCGCGGGCTCCGTCCTCTCGGCTT
CCCCATGTGTGGGCTGGGACCGCCACGGGGTGCAGATCTCCTGGCGTGTCCACCATGGCCCCGAGAACGCCAG
GGACCGCCTGCTGCCAAGGGCTCAGGCATGGACCCCTCCCTTCTAGTGCACGTGACAAGGTTGTGGTGAAGTGTG
GCCGTGATGTTTGACAGTAGAGCTGTGTGAGAGGGAGAGCAGCTCCCCCTCGCCCCGCCCCCTGCAGTGTGAATGTG
TGAAACATCCCCCTCAGGCTGAAGCCCCCACCACCCAGAGACACACTGGGAACCGTCAGAGTCAGCTCCTTCC
CCCTCGCAATGCACTGAAAGGCCCGGCCGACTGCTGCTCGCTGATCCGTGGGGCCCCCTGTGCCCGCCACACGCA
CGCACACACTCTTACACGAGAGCACACTCGATCCCCCTAGGCCAGCGGGACACCCAGCCACACAGGGAGGCAT
CCTTGGGGCTTGGCCCCAGGCAGGGCAACCCCGGGGCGCTGCTTGGCACCTTAGCAGACTGCTGGAACCTTTTGG
CCAGTAGGTGCTGCCCGCCTGGTGCCTTCTGGCCTGTGGCTCCCTGCCCATGTTACCTGGCTGCTGTGGGTAC
CAGTGCAGGTCCCGGTTTTTCAGGCACCTGCTCAGCTGCCGCTCTCTGGCCTGGGCCCTGCCCTTCCACCTGT
GCTTAGAAAGTGAAGTGCTTGGTTCTAAATGTCTAAACAGAGAAGAGATCCTTGACTTCTGTTCCCTCTCCCTCC
TGCAGATGCAAGAGCTCCTGGGCAGGGGTGCTGGGCCCCAGGGTGTGGCAGGAGACCCAGTGGATGGGGCCAGC
TGGCCTGCCCTGATCCTCTGCTTCTCTCACAACCCCAAGAGCCCCAGCCCGGTCCATCCACGTCTGGAGTCT
GGGGAGAGGAGCAGGGICTTAGGACTCTCAGCTCTGAGCATCCCTGGCAGGGTCTTCAACCTCTAATCTCTTCCC
TTAAGCCCTGTGGCCACACAGCCAGGAGAGACTTGCCGCTGGCTCCCGCCTCATTTCAGCCCAGGGTGTCTATCC
AGGGGCCCAGAACAGTCCACCTGTGCTGCTATGCCACAGCACAAAGCCAGGCTTCACTCCCAAAGTGCAGCC
AGGCCCTGGAGGGTGATCTGCCAGCAGCCCTACAGCTCCACACCCTACCCACCATCGGCAGCCCCCTCTGCTGT
TCCCCAGGGACCTCTCATACACTGGCCAGGAGGCTGCAGAACGTGTGTCTCCCCCTCCCTCCAAGAGGTCTGTCT
CCCTCTGCCAGAACCGTGTGTGGGCGGGTGGGAGGGCGCTCGGGGCCCGGCCCTCCCTCTCCCTGCTGGTTTTA
GTTGGTCCCTATGTTGGAAGTAAAAAGTGAAGCACTTTATTTGGTTGTGTTTGCTCACGTTCTGCTTGAAGTG
GGGACCCCTCACTGCGTCCACGTGTCTGCGACCTGTGTGGAGTGTACCCGCGTGTACATACTGTAAATTATTTAT
TAATGGCTAAATGCAAGTAAAGTTTGGTTTTTTTGT

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FIGURE 4318

MGMGRGAGRSALGFWPTLAFLLCSPFAATSPCKILKCNEFW SATSGSHAPASDDTPEFCAALRSYALCTRR TAR
TCRGDLAYHSAVHGIEDLMSQHNSCKDGPTSQPRRLTLPPAGDSQERSDSPEICHYEKSFHKHSATPNYTHCGLF
GDPHLRTFTDRFQTCKVQGAWPLIDNNYLNQVTNTPVLPGSAATATSKLTIIIFKNFQECVDQKVYQAEMDELP A
AFVDGSKNGGDKHGANSKITEKVSQGHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEVVNAVEDWDSQGLYLCL
RGCPLNQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETAVAKCKEKL PVEDLYYQACVFDLLTTG DVNFT
LAAYYAL EDVKMLHSNKYKLHLYDRTRDLPGR AAAGLPLAPRPLL GALVPLLALLPVFC

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FIGURE 4319

AGCCGGTGC GCCG CAGACTAGGGCGCCTCGGGCCAGGGAGCGCGGAGGCCATGGCCACCGCTAACGGGGCCGT
GGAAACGGGCAGCCGGACAGGAAGCCGCCGGCCCTGCCGCGCCCCATCCGCAACCTGGAGGTCAAGTTCACCAA
GATATTTATCAACAATGAATGGCACGAATCCAAGAGTGGGAAAAAGTTTGCTACATGTAACCTTCAACTCGGGA
GCAAATATGTGAAGTGGAGAAGGAGATAAGCCCCGACGTGGACAAGGCTGTGGAGGCTGCACAGGTTGCCTTCCA
GAGGGGCTCGCCATGGCCCGGGCTGGATGCCCTGAGTCGTGGGCGGCTGCTGCACCAGCTGGCTGACCTGGTGG
GAGGGACCGCGCCACCTTGGCCGCCCTGGAGACGATGGATACAGGGAAGCCATTCTTCATGCTTTTTTCATCGA
CCTGGAGGGCTGTATTAGAACCCTCAGATACTTTGCAGGGTGGGCAGACAAAATCCAGGGCAAGACCATCCCCAC
AGATGACAACGTCGTGTGCTTACCAGGCATGAGCCCATTGGTGTCTGTGGGGCCATCACTCCATGGAACTTCCC
CCTGCTGATGCTGGTGTGGAAGCTGGCACCCGCCCTCTGCTGTGGGAACACCATGGTCTGAAGCCTGCGGAGCA
GACACCTCTCACCGCCCTTTATCTCGGCTCTCTGATCAAAGAGCGCGGTTCCCTCCAGGAGTGGTGAACATTGT
GCCAGGATTTCGGGCCCACAGTGGGAGCAGCAATTTCTTCTCACCCCTCAGATCAACAAGATCGCCTTACCAGGCTC
CACAGAGGTTGGAAAACCTGGTTAAAGAAGCTGCGTCCCGGAGCAATCTGAAGCGGGTGACGCTGGAGCTGGGGGG
GAAGAACCCTGCATCGTGTGTGCGGACGCTGACTTGGACTTGGCAGTGGAGTGTGCCATCAGGGAGTGTCTT
CAACCAAGGCCAGTGTGTCACGGCAGCCTCCAGGGTGTCTGTTGGAGGAGCAGGTCTACTCTGAGTTGTCAGGCG
GAGCGTGGAGTATGCCAAGAAACGGCCCGTGGGAGACCCCTTCGATGTCAAACAGAACAGGGGCCCTCAGATTGA
TCAAAGCAGTTTCGACAAAATCTTAGAGCTGATCGAGAGTGGGAAGAAGGAAGGGGCCAAGCTGGAATGCGGGGG
CTCAGCCATGGAAGACAAGGGGCTCTTCATCAAACCCACTGTCTTCTCAGAAGTCACAGACAACATGCGGATTGC
CAAAGAGGAGATTTTCGGGCCAGTGCAACCAATACTGAAGTTCAAAAGTATCGAAGAAGTGATAAAAAGAGCGAA
TAGCACCGACTATGGACTCACAGCAGCCGTGTTCACAAAAAATCTCGACAAAGCCCTGAAGTTGGCTTCTGCCTT
AGAGTCTGGAACGGTCTGGATCAACTGCTACAACGCCCTCTATGCACAGGCTCCATTGGTGGCTTTAAATGTC
AGGAAATGGCAGAGAAGTAGGTGAATACGCTTTGGCCGAATACACAGAAGTGAAGTGTACCATCAAACCTTGG
CGACAAGAACCCTGAAGGAAAGGCGGGGCTCCTTCTCAAACATCGGACGGCGGAATGTGGCAGATGAAATGG
CTGGAGGAAAAAATGACATTTCTGACCTTCCCGGGACACATTTCTTGGAGGCTTTACATCTACTGGAGTTGAA
TGATTGCTGTTTTCTCTCACTCTCCTGTTTATTCACCAGACTGGGGATGCCTATAGGTTGTCTGTGAAATCGCA
GTCCTGCCTGGGGAGGGAGCTGTTGGCCATTTCTGTGTTTCCCTTTAAACCAGATCCTGGAGACAGTGATACT
CAGGGCGTTGTTAACAGGGAGTGGTATTTGAAGTGTCCAGCAGTTGCTTGAAATGCTTTGCCGAATCTGACTCCA
GTAAGAATGTGGGAAAACCCCTGTGTGTTCTGCAAGCAGGGCTCTTGACACAGCGGTCTCCTCAGGGTGGACCT
GCTTACAGAGCAAGCCACGCCCTCTTCCGAGGTGAAGGTGGGACCATTCTTGGGAAAGGATTACAGTAAGGTT
TTTTGGTTTTTGTTTTTTGTCTTGTTTTTAAAAAAGGATTTACAGTGAGAAAGTTTTGGTTAGTGCATAC
CGTGGAAGGGCGCCAGGGTCTTTGTGGATTGCATGTTGACATTGACCGTGAGATTGCGCTTCAAACCAATACTGC
CTTTGGAATATGACAGAATCAATAGCCCAGAGAGCTTAGTCAAAGACGATATCACGGTCTACCTTAACCAAGGCA
CTTTCTTAAGCAGAAAATATTGTTGAGGTTACCTTTGCTGCTAAAGATCCAATCTTCTAACGCCACAACAGCATA
GCAAATCCTAGGATAATTACCTCCTCATTTGACAAAATCAGAGCTGTAATTGCTTTTAAACAAATTACGCATTTCT
ATCACGTTCACTAACAGCTTATGATAAGTCTGTGTAGTCTTCTCTTTTCTCCAGTTCTGTTACCCAATTTAGATTA
GTAAAGCGTACACAACCTGGAAGACTGCTGTAATAACACAGCCTTGTATTTTTTAAGTCTATTTTGATATTAAT
TTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGAGGACCTCGGTCTTCATCCAAGTGGCCTGAGTATTTCA
CTGGCAGGTTGTGAATTTTTCTTTCTCTTTGGGGATCCAAATGATGATGTGCAATTTCAATGTTTTAACTTGGG
AAACTGAAAGTGTCCCATATAGCTTCAAAAACAAAACAAATGTGTTATCCGACGGATACTTTTATGGTTACTA
ACTAGTACTTTCTAATTGGGAAAGTAGTGCTTAAAGTTGCAAATTAAGTTGGGGAGGGCAATAATAAATGAGG
GCCCCGTAACAGAACAGTGTGTGATAACGAAAACCATGTATAAATGGGCCATACCCCTTGTGAGAGATATAA
ATTACCACATTTGCCCTTCCCTTCATCAGCTAACACTTATCATTATACTACCAATAACTTGTAAATCAGGATTT
GGCTTCATACTGAATTTTTCAGTATTTTATCTCAAGTAGATATAGACACTAACCTTGATAGTGATACGTTAGAG
GGTTCCTATTCTTCCATTGTACGATAATGTCTTTAATATGAAATGCTACATTATTTATAATTGGTAGAGTTATTG
TATCTTTTTATAGTTGTAAGTACACAGAGGTGGTATATTTAAACTTCTGTAATATACTGTATTTAGAAATGGAAA
TATATATAGTGTTAGGTTTTCATTTCTTTAAGGTTTACCCTGTGGTGTGGTTTAAAAATCTATAGGCCTGGGAA
TTCCGATCCTAGTGCAGATCGCATCCCAATGCGAGAATGATAAAATAAAATTGGATATTTGAGA

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FIGURE 4320

GAATTCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCTTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTACCAATAATAGTCTCGTGGAAGTGGGTGATCTGG
ACCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGTTTGCCAACTGACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCTCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTT
TTGAAATCTAAATGTCAATTTCTACAAATTATAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 4321

MVKLTAEIEQAAQYTNVDRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFPLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELIILTNNSLVELGDLDPASLKSILTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFOKV
KLKERQEAEMFKGKRGALAKDIARRSKTFNPGAGLPTDKKRGGPSGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDTVTNGS

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FIGURE 4322

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAAGTGAAGTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTGCAGAGGGGCCAGCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCTGCCCTGGGGAGGTGG
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTGAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCACGAGGCCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCTCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG

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FIGURE 4323A

GCACCAGAAGCCAGCAGTGGGGTTGCACACGCGCCTCTTCACGAGGTGGAAACAAGATGGAGGATTTCGGCCTCGG
CCTCGCTGTCTTCTGCAGCCGCTACTGGAACCTCCACCTCGACTCCAGCGGCCCCGACAGCACGGAAGCAGCTGG
ATAAAGAACAGGTTAGAAAGGCAGTGGACGCTCTCTTGACGCATTGCAAGTCCAGGAAAAACAATTATGGGTTC
TTTTGAATGAGAAATGAAAGTTTATTTTTAATGGTGGTATTATGGAAAATTCGAAGTAAAGAACTGAGGGTCAGAT
TGACCTTGCTCATAGTATTTCGATCAGATTGAGAAGATATCTGTTTATTTACGAAGGATGAACCCAATTCAACTC
CTGAAAAGACAGAACAGTTTTATAGAAAGCTTTTAAACAAGCATGGAATTAACCGTTTCTCAGATTATCTCCC
TCCAACTCTAAAGAAGGAATATAAATCCTATGAAGCCAAGCTCCGCCTTCTGAGCAGTTTTGATTTCTTCCTTA
CTGATGCCAGAATTAGGCGGCTCTTACCCTCACTCATTGGGAGACATTTCTATCAAAGAAAGAAAGTTCCAGTAT
CTGTAAACCTTCTGTCCAAGAATTTATCAAGAGAGATCAATGACTGTATAGGTGGAACAGTCTTAAACATTTCTA
AAAGTGGTTCTTGCACTGTATACGTTTGGTCACGTTGGAATGCAAATTGAGCACATCATTGAAAACATTGTTG
CTGTACCAAAGGACTTTCAGAAAAATTGCCAGAGAAGTGGGAGAGCGTGAACTCCTGTTTGTGAAAACCTGAGA
AATCGGCTGCACTTCCCATCTTTTCTCGTTTGTGAGCAATTGGGATGAAGCCACCAAAAGATCTTGTCTTAATA
AGAAGAAAAAGAGGCAAGGAGAAAAAGAGAAAGAAATTTGAAAAACAAAAGGAGAGGAAGAAGAAGAGGC
AGCAGGCTAGGAAGACTGCATCAGTTCTTAGTAAAGATGATGTGGCACCTGAAAGTGGTGATACTACAGTGAAGA
AACCTGAATCAAAGAAGGAACAGACCCAGAGCATGGGAAGAAAAACGTGGCAGAGGAAAAGCCCAAGTTAAAG
CAACAAATGAATCCGAAGACGAAATCCACAGCTGGTACCAATAGGAAAGAACTCCAGCTAATGAAAAAGTAG
AGATTCAAAAACATGCCACAGGAAAGAGTCTCCAGCAAAGAGTCTAATCCCAGCACACCTCGTGGGAAGAAAA
GAAAGGCTTTGCCAGCATCTGAGACCCCAAGCTGCAGAGTCTGAGACCCAGGGAAGCCAGAGAAGAAGC
CAAAAATCAAAGAAGAGGCAGTGAAGGAAAAAGTCTTTCGCTGGGGAAGAAAGATGCGAGACAGACTCCAAAAA
AGCCAGAGGCCAAGTTTTTACCCTCTAGTAAATCTGTGAGAAAAGCTTCCACACCCCAAAAAATGGCCCA
AAAAACCCAAAGTACCCAGTCGACCTAAAGTCAGTGATTCAACTGGAAGGAAACCTCAATGCTGCCTCCAGAGC
TTTTTGAAATACTCAGATCCTGGCCGCTTTGTAACTTCTCTAAACGTGAGGCTGAGCTTAAAGATTTTTT
AAAACCTCCATAAGTAGTCCAGGGGCGGTGGCTCACGCTGTAATCCAGCACTTTGGGAGGCCGAGGCAGGCGG
ATCACAAGGTCAACGAGATCGAGACCATCTGGCCAACATGGTGAAACCTGTCTGTACCAAAAAATACAAAAAT
AATTGGGCATGGTGGTGACACCTGTAATCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG
AGGCGGAGGTTGCAGTGAGCCACTGCATCCAGCCTGATGACAGAGCAAGACTCAGTCTCAAAAAATAATAAAAA
TAATAAAACCTCCATAAGTAATCCTGACATATGTTCTGGGTATAATCTGTTTCTAAATTGTCTTCTGTGTATT
TGCTAATGTAATAGAGGAAAAATAGAGTGCTTCTGTGGTTGTTTACGACTTTAGGTAGCCAAGGTGAGAGGA
TTGCTTGAGGCCAGGAGTTTGAAGTACTGCTGGGCAACTTGGTAAAACCCCATCTCTACAAAAGAAAAA
TTAGTGTGGCATGGTGGCATGCATCTGTGCTCCAGCTCCTACGAGGCTGAGGTGGAAGGATCAAGTGAGCGCA
AGAGTTGAGGCTCCAGTGAGCCACGATACCCCACTGTGCTGTAGCCTGGGTGACAGTGTGAGATTCTGTCTCA
GAAAAACAAAGTATAACATTGCTTTGCTTCTGAGTATACTGTGGCTTTCCAAATCAGTGGGTCTGACTTGAGG
TCTGTGATGTGACCTTTTCTCACCTGCTCAACCATTTACATGGAAGTCCATCATATTATTGTAGTCATT
CCCAGAGTGGCCAGTGAGGGTCTCGCTGTATGAGAGTCGGCTACGGAATTTAGGAGAAACAGAAGTTTCTTGGC
TTTCATGCTGAGCTTGTGGTCTAAGCTTATGAGTCACTGGATTAGCATCCATATGGGAAGGGAATTAACATGG
AGTCATTATACAGGGAATAAATTGAATCCTACCTACCGGAGGCAAGAACATGATTTATCTTCCATAAGCCTTAT
CCTCTTCTCCTTATTCCTCAGTCCATATGGATTGCTTATGTATGACAACCTCAAGGAATCTTGAAGAGTAGA
TTGCTAACGTTTCCACAATTGTCAAGTATATTCTGAGGCAGTAAACACCTTTTAGGTACGTGGCTTTCACTGG
TTGTGAATTGGTATGCATCCGTAGTAGTAAGTTCACAGATTCACTGCAGTGCAGGAATGTTCTTGCATGCCAAAG
ACTCAACTGCTTTCAAAGATAATGTGGGTGCTAGATGCAGTGGCTTACATCTGTAACCTGTTAGGGTGACCAGA
CCCAACACCAGGTCGTGGGGGTGACAAAGTCCAGTGGAGTCAAAGGATTGAGAAAAAGACAGTTTGAGAGAGAAG
TAGGACCAGCAGACCATCGGGATGGTGGAGGCTGTGAAGGCGTGAGCTCTGGGAGCCACACTATTATTGGTA
ATCCAACAAAGAAACAGATGGTGAGAATGTGAAGGTGAGAGGACCTTGCAATTAAGCACATGATTTACAGCTG
TGATGGTTTAGCTTTGCTCTGCTACTTGAGATGATGGAGAGCAGGTTCTTTTAACTCAAGTTACAGTGCATCCT
GGGAGAGCAAGGAGCCAGCAAGTCTAGACATTCCAGAGCCACAGGCCCTGGATTTTATCCAAGCCACGAGGATT
TTATGCCCTGGGCTTTAGATTATGGTGGCTCAGGCGAGCCTTCCACCTTTAGCACAGAGCTTGGTGTTCAAAGA
CCACAAGGGGTTTTAGACCTTGACCCTGGACATATTCCAAGACTCTTTTACATTATGTCAGAAATGCAAGCCCTG
CCTCAGCTTCTCCCAACACTCAGCTTTTCGCAACATAATCCAGCACTTTGGAACGCTGGGTGGATTGCTTGAAC

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FIGURE 4323B

CCAGGAGTTCGAGACCATCCTGGGCAATATGGCAAAACCCCATCTTTACCAAAAATAAGCTGGGTGTGGTGGAAC
ATGCCTGTGGTCCCAGCTTCTTGGGAGGCTGAGGTGGGAGGATTGCTTGAACCCGGGAGGTAGAGGCTGCAATGG
GCCATGATCACGATCCTGCACTCCAGCCTGGGCAACAGAGAGAGACAGTCCCTGGCCCACTGCCCCCTTCCCTGG
CCCAGTCTCAAAAAAATGAGGCTGGGCGTGGTGGCTCACATCTGTAATCCCAGCCAAGGCTGGCAGATCACTTG
AGGCCAGGAGTTCTGAGACCAGCCTGGCTTACATGGTGAAACCCCATCTCTACTAAAAATACAAAACTAGCCAG
GCATGGTGGGAGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCACTTTAACCCGGGAGGTGG
AGGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCGGCAGAGCAAACTGAAAAAAGAGAAAAA
AAAAAA

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FIGURE 4324

MEDSASASLSSAAATGTSTSTPAAPTARKQLDKEQVRKAVDALLTHCKSRKNNGLLLNENESLFMLVVLWKIPS
KELRVRLTLPHSIRSDSEDICLFTKDEPNSTPEKTEQFYRKLLNKHGIKTVSQIISLQTLKKEYKSYEAKLRLLS
SFDFFLTDARIRLLPSLIGRHFYQRKKVPVSVNLLSKNLSREINDCIGGTVLNISKSGSCSAIRIGHVGMQIEH
IIENIVAVTKGLSEKLPEKWESVKLLFVKTEKSAALPIFSSFVSNWDEATKRSLNKKKKGGKEKTKRKKF

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FIGURE 4325

CCAGCCACTTCCGCTGGTCGGCGCTGGAGGTGTCCTGGGGCTTGACACGTCCCTGTGCCAGTACTTCAGCGAGG
AGGATGTGGTGTGGCGGACAGAGGGGCTGCTGCCCCCTGGAGGAGACCTCGCCCCGCCAGGCCGTCTGCCTCACCC
GCCACCTCACCGCCTTCGGCGCCAGCCTCTTCATGCCCCCAAGCCATGAGCCGACAGCGGATGTAAACTACATCG
TCATGCTGACATGTGCTGTGTGCCTGGTGACCTACATGGTCATGGCCGCCATCCTGCACAAGCTGGACCAGTTGG
ATGCCAGCCGGGGCTGCGCCATCCCCCTTCTGTGGGCAGCGGGCCGCTTCAAGTACGAGATCCTCGTCAAGACAG
GCTGGGGCCGGGGCTCAGGTACCACGGCCCACGTGGGCATCATGCTGTATGGGGTGGACAGCCGGAGCGGCCACC
GGCACCTGGACGGCGACAGAGCCTTCCACCGCAACAGTCTGGACATCTTCCAGATCGCCACCCCGCACAGCCTGG
GTAGCGTGTGGAAGATCCGAGTGTGGCAGACAAAGGGCTCAGCCCTGCCTGGTTCCTGCAGCACATCATCGTCA
GGGACCTGCAGACGGCACGCAGCACCTTCTTCCTGGTC

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FIGURE 4326

CTGGGGCTGTGACCGTGGGGTCGAAGCGCGCGTGC CGCGCGCGCGCTGGCGCGCGCGGTGGGGCGGGCGCTGGG
TGTCAGCCGGCCTAGGAGGAGGAAGGAGCCTGCGGCGTGCAGTGTGAGGGGCGGGACCCGGCTGCCGGCGGTGGG
TCTAGCTGGGGGAGGTTCGGGCCATGCTGGTGGGCCAGGGCGCGGGGCGCGCTGGGGCCCGCGGTGGTACCGCCGC
GGTGGTGTCTGCTGCTGAGCGCGGTGGGGCCGGCGCACGGCTCGGAGGACATCGTGGTGGGCTGCGGTGGCTTCGT
CAAGTCGGACGTGGAGATCAACTACTCTCTCATCGAGATAAAGCTGTACACCAAGCATGGGACTTTGAAATACCA
GACAGACTGTGCCCCCTAATAATGGTTACTTTATGATCCCTTTGTATGATAAGGGGGATTTCATTCTGAAGATTGA
GCCTCCCTAGGGTGGAGTTTTGAGCCGACGACCGTGGAGCTCCATGTGGATGGAGTCAGTGACATCTGCACAAA
GGGTGGGGACATCAACTTTGTCTTCACTGGGTTCTCTGTGAATGGCAAGGTCCTCAGCAAAGGGCAGCCCCCTGGG
TCCTGCGGGAGTTTCAGGTGTCTCTGAGAAACACTGGGACCGAAGCAAAGATCCAGTCCACAGTTACACAGCCTGG
CGGAAAGTTTGCAATTTTTTAAAGTTCTGCTGGAGATTATGAAATCCTCGCAACTCATCAACCTGGGCGTTGAA
AGAGGCAAGCACCACAGTGCCTGTAACCAACTCCAATGCCAATGCGGCCAGTCCCTCATAGTTGCTGGCTACAA
TGTGTCTGGTCTGTGCCAAGTGATGGGGAGCCCATGAAAGGCGTGAAGTTTCTTCTCTTTCTTCTTTAGTAAC
TAAAGAGGATGTCTGGGCTGCAATGTCTCACCAGTGCCTGGGTTCCAGCCCCAAGACGAGAGTCTGGTGTATTT
GTGCTACACGGTCTCCAGAGAAGATGGCTCGTTCTCTTTCTATTCTTCCCAAGTGGGGCTACACTGTGATTCC
GTTCTATCGAGGGGAGAGGATTACCTTTGATGTGGCGCTTCCAGACTTGACTTCACAGTGGAGCATGACAGCTT
GAAAATCGAGCCCGTGTTCACGTCATGGGATTCTCCGTCACCGGGAGGGTCTTGAACGGACCCGAAGGAGATGG
TGTTCCAGAAGCAGTAGTCACCCCTGAATAACCAATCAAAGTTAAACAAAAGCTGATGGCTCATTCCGCCTTGA
GAACATAACCACAGGGACATACACCATCCATGCTCAGAAAGAGCACCTCTACTTTGAAACGGTCACCATCAAAAT
TGCACCAAACACACCTCAGCTGGCTGACATTGTTGCAACAGGGTTTCAGTGTCTGTGGTCAGATATCAATCTCG
CTTCCCCGACACCGTCAAGCAGATGAATAAATACAAAGTTGTCTGTCTCAAGACAAGGACAAGTCTTTGGT
CACCGTGGAGACAGATGCTCATGGATCATTTTGTTTTAAAGCAAACCCAGGGACTTACAAAGTGCAGGTGATGGT
TCCTGAGGCAGAAACCAGAGCAGGGCTGACGTTGAAACCCAGACATTTCCTCTTACTGTGACCGACAGGCCTGT
GATGGATGTGGCCTTTGTACAGTTCTTGGCATCAGTTTCTGGGAAAGTCTCTTGTGTTGGACACCTGTGGTGACTT
GCTGGTGACTCTACAGTCCCTGAGCCGCCAGGGTGAGAAGCGGAGCCTCCAGCTCTCCGGCAAGGTCAACGCCAT
GACTTTACCTTTGACAACGTGCTCCCTGGAAAATACAAAATAAGCATCATGATGAGGATTGGTGCTGGAAGAA
CAAGAGCCTGGAGGTGGAAGTGCTGGAGGATGACGTGTCTGCAGTTGAGTTCAGGCAGACGGGCTACATGCTGAG
ATGTTCCCTGTCTCAGCCATCACTCTGGAATTTTATCAGATGGAATGGGCGTGAGAATGTGGGGATTTATAA
CCTCTCCAAAGGAGTCAACCGATTCTGCCTGTCCAAGCCTGGTGTGTACAAAGTGACCCCTCGCTCCTGCCACCG
GTTTGAGCAAGCGTTCTACACCTATGACACGTCTTCACCTAGTATCTTGACATTGACAGCCATTCCGCCACCATGT
CCTTGGAATATCACCACCGACAAAATGATGGATGTCACTGTGACTATCAAGTCTTCCATCGACAGTGAACCCGC
CTTGGTCTTAGGCCCTCTGAAGTCTGTGCAGGAGCTGCGGAGGGAGCAGCAGCTGGCTGAGATCGAGGCCCGCAG
GCAGGAGAGGGGAGAAAAACGGCAAAGAGGAAGGCGAAGAAAGAAATGACCAAGCCTCCCGTGCAGGAGATGGTAGA
TGAGTTACAAGGCCCTTCTCGTATGATTCTCTTACTGGGCGCGGTCTGGAGAGAAAATCACTGTTACACCGTC
ATCTAAAGAGCTGCTCTTTATCCCCCTCAATGGAAGCGTGTGTGAGTGGAGAAAAGCTGCCCAGGGAAGCTGAT
CGAGATCCACGGGAAGGCAGGCCTGTTTTAGAAAGGCCAGATCCACCCGAGTTGGAAGGAGTCGAGATTGTGAT
CAGTGAAAAGGGGGCAAGTTCACCGCTGATCACAGTCTTTACTGATGACAAAGGTGCCTACAGTGTGGCCCCCT
GCACAGTGACCTGGAGTACACGGTGACCTACAGAAGGAGGCTATGTTCTGACTGCGGTGGAAGGAACCATCGG
AGACTTCAAGGCCTATGCCCTGGCAGGCGTAAGCTTTGAGATAAAAGCTGAGGATGACCAGCCCCCTCCGGGAGT
CCTCTTATCCCTGAGCGGTGGCCTGTTTCGTTCACCTCTTGACCCAGGACAACGGAATTCTGACATTCTCAA
CCTGGTGACGTGTTCTGCAATTTACCACCTGCCTGTCTTCCCTGAGAGAGAGCCAGGATGCAGCATGCGGAGACTT
ACGTGTTGCTTGACAACGTGAGAAGAGAAGGCCAATGTGGAGTGGTTTCAGTTTCT

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FIGURE 4327

AGCCGCCTCTGCCGCCGCCGCCGCGTTGGCCTCGCCGCCCTGCTCGGACACCATGCCACAAGGAGAGTGATCTC
TTCCCCTGTTTTCAAAATGGAGGACTCCGGAAGACTTTTCAGCTCCGAGGAGGAAGAAGCTAACTATTGGAAAGA
TCTGGCGATGACCTACAAACAGAGGGCAGAAAATACGCAAGAGGAACCTCCGAGAATTCCAGGAGGGAAGCCGAGA
ATATGAAGCTGAATTGGAGACGCAGCTGCAACAAATTGAAACCAGGAACAGAGACCTCTGTCCGAAAATAACCG
CCTTCGCATGGAGCTGGAAACCATCAAGGAGAAGTTTGAAGTGCAGCACTCTGAAGGCTACCGGCAGATCTCAGC
CTTGGAGGATGACCTCGCGCAGACCAAAGCCATTAAAGACCAATTGCAGAAATACATCAGAGAGCTGGAGCAAGC
AAATGACGACCTGGAAAGAGCCAAGCGCGCCACGATCATGTCTCTCGAAGACTTTGAGCAGCGCTTGAATCAGGC
CATCGAAAGAAATGCCTTCCTGGAAAGTGAAGTTGATGAAAAAGAGAATCTCCTGGAATCTGTTTCAGAGACTGAA
GGATGAAGCCAGAGATTTGCGGCAGGAAGTGGCCGTGCAGCAGAAGCAGGAGAAACCCAGGACCCCATGCCAG
CTCAGTGAAGCTGAGAGGACAGACACAGCTGTGCAGGCCACGGGCTCCGTGCCGTCCACGCCCATTGCTACCG
AGGACCCAGCTCAAGTTTAAACACACCTGGGAGCTTCAGACGTGGCCTGGACGACTCCACCGGGGGGACCCCT
CACACCTGCGGCCCGGATATCAGCCCTCAACATTGTGGGAGACCTACTGCGGAAAGTCGGGGCACTGGAGTCCAA
ACTCGCTTCCTGCCGGAACCTCGTGTACGATCAGTCCCCAAACCGAACAGGTGGCCACGCTCTGGGCGGAGCAG
CAAGAACAGAGATGGCGGGGAGAGACGGCCAAGCAGCACCAGCGTGCCCTTTGGGTGATAAGGGGTTGGACACGAG
TTGCCGCTGGTTGTCCAAATCAACAACCAGGTCGTCCAGCTCCTGCTGAAGCCTGTTCTTGGTCTTTTCCAGTTT
ATCATACGCGGCCGCTTCTCCTCGTACTGCTGGGTGAGGTTCTCGATCTCCTTCTGGAACCTCTTCTTCCCTC
TTCCAGAGCTTCCACGGTGCTGGCAAAGTCTGACGCTTCTTCTTCGAGTCGGAGAGCTACAAGGACAGCGTCCA
GGGTAGGGTGAGAGGGGGACCATGAATGGCCCCGTGCCCTGGCCCCACAGACTCTGAGAAGCGAAGACCATGTCT
CCTCGTTGGAGAAACCAATAGCAGGGGAAGCTGGGGGGTCAAGCACCATCGCACCAACACTCCACCGCGATCTG
CCTGCGGGGGATCTCAGCGCAGAGAAGTTGAGAGGACCCATGAAGGAAGCAAGGACACGGGGCAGGCACCTGGAT
GTTGAGAGTGGAGATGTGGCGCTCCAGGTTCTGCTTGGCCTCCATCTCCTCGTCCAGCTGGTCTTGCAGGCTGTT
CCGCTCCTCCTCCAGCTGGCGCAGCTTCGTAGACACGTTGAGCTTCTGCCGGGTTTCTTCTTGAAGCAGCTCCTG
CAAAAGGGATGCAAAGAGGTCCCAGGGACCTGCCCCGAGGAAGGCCACCCCCAGGTCCCCTGGATGATGTGGCA
GGACACTCACCTGGGTGTCTGGAGCTGGGAAGTGAAGGACGCCACGTCCTTGGCCAGCTTAATGGCCTTCCCT
CGGCCTCGTTAAGCATCCCTGTGACGCTCTCAACTTATTCTAAGGGTGCCAAGAGACTGGTTAGTCAAAGCCTC
TAGAAGGGGATCCTCGTTGAAAGGAGCCCTTTTACTCAAACACATGGGCTAGTACTTGAGGTGTTCACTGATT
GAGAAAATACCCGTGAGGTATGGGACTCTGAAAAAAAAAAAAAAAAA

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FIGURE 4328

MEDSGKTFSSSEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEALETQLQQIETRNRDLLSENNRLRMEL
ETIKEKFVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLED FEQRLNQAIERNA
FLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQATGSPSTPIAHRGPSSS
LNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALESKLASCRNLVYDQSPNRTGGPASGRSSKNRDG
GERRPSSTSVPLGDKGLDTSCRWLSKSTTRSSSSC

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FIGURE 4329

GGCTGGGGAAACAGAACTCGCAGAAAGTTAAAAAATGTGCTTGAGGTGCCACTGGAGAATAACAATCATAGCCA
GGATCTGAAGCCTGTCAGTTTCTCAGCCGCAAATTCTTCCATGTGGGGCGACCTCACAGAGACGGGATGTATGG
GACGGCGGAGTGCAAAGAAAGATCAGCTGGACATCATCTCCATGGCGGAGACAACCATGATGCCAGAGGAGATTG
AGCTGGAGATGGCAAAAATTACAGCGTCTCCGGGAAGTCTTGGTCCGCCGGGAGTCTGAGCTCAGGTTTCATGATGG
ATGACATCCAGCTCTGCAAGGACATCATGGACTTGAAGCAGGAGCTGCAGAACTTGGTCGCCATCCCAGAAAAAG
AAAAAACCAAACTGCAGAAGCAGAGAGAGGATGAGCTAATCCAGAAGATCCACAACTGGTGCAGAAGAGAGACT
TCCTGGTGGACGATGCGGAGGTGCGAGCGTTAAGGGAGCAAGAAGAAGACAAGGAAATGGCTGATTTCTTGAGAA
TCAAGTTAAACCTCTAGACAAAGTAACCAATCTCCAGCCAGCTCCCGGGCAGAGAAGAAAGCAGAGCCCCAC
CTAGCAAGCCCACGGTGGCCAGACGGGGCTGGCACTGATCAAGGATTGTTGCGGGGCCACCCAGTGCAACATCA
TGTAGCCCCACGTGGGGTGCCCTGGGCCATGGGGACCCCCCCCCACCCCTCTTGCTTTATAGCCCCCATTTACAC
CGGGGCCCAAGAGCTCTCCAAGGCAGAAGGGGTTGAAGGCAAGCCCGTGACTGTCACCAGAGGCCATGGGCACGG
CAGGCGGGCCTGGCCACCCTGTACAGAGTGTAGCAGTAGGGAGTCTCTACCGTCGCATGGTCTCTCCCAGAGCA
TGCCGAACCCAGGAGTCTGTCTCACTGTTTATCCAAACACCAGGAAAGGTCCTCCCTCAAAAAAGCATATCTCCA
CTTCTCTCTAGCTGTATCTAACCACCGTGTGAATGAAGTGGGAGAGGGGCATGCTCCCCAGCTGTGTGTAGTCG
TGACTTCTCAACAATCTAGCACCATGTCGGACACGTTCCCCATCCACCCTCCTAGCTCTGCTCTCAGAGCTAGGC
ACATGGGCACAGGTCCCCCTCCCGTCTGTCTCTCCAGCAACTGTGCCCTGGAGGGCTCCACATGGCCCCCGTGT
CTCTCGGGCACCACCCATATAGCAGTCCCAGAGGGCCCATCTGTAAAGATCGAGCTTGTGTGTGGTGTCTGGTCTC
ACATCTCCCGCTTCCCCCATCCTGTGTCTGGGCACAGTTACATCAGGACAGCGTCCATTGTGCTCTCAGTCTG
CCTCAGGTGTGTGCTGGAGGGGGCCTGGACTGGCATGGATCCAGTGTGCAGAAGAGCCAGCAGGGAACCGGAAG
CTCTGATGTCAAGGCCAGAGCAGTTGAGAATGGGACCCAGAGTAGATGCTGACCTGGGCACTCCACCATTCCGGG
GCCACCACAGAGATGCCAGCAGGATGCCACTTTGCCAGCCCGACACACGGACCTTTGTAAAGAACAGCAACAGGC
AGGAGAGGCAGCGTGTGACCAGATTGTGTCCCGTCATTGGGTGGCATATGTTAACTAGCTGCCAAACAACTTCAA
CCCGTGTAATTCATGTACATTGCAACAGCCAGCCCGGTACAGCCTGTGTGACTTCTCTGTATGTGTGTGTGTGT
CGTGACCAGCCTAAGTAGTTAGCATAACTCAAGATGCTGATGTGCAGTCACCCATCAGAGAAAATAAAAAATGGAA
ACCACGTTACAGCATTTTAAAGTTTTTACTTTTTTTCTTGATTATGGAAGTAATCCATGTACATAGTAAATCA
TTTTAAAGTACAAAAAGTATGAAGAAGTTTGTCTT

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FIGURE 4330

MSDTFPIHPPSSALRARHMG TGPLPSVLSQQ LCPGGLHMAPVSLGHHPYSSPRGPICKDRACVWCRGHISRFPSS
CVWAQFTSGQRPLCSQSASGVCLEGAWTGMDPVCRRASREPEALMSRPEQLRMGPRVDADLGTPPFRGHHRDASR
MPLCQPDTRTFVKNSNRQERQVRTRLCFVIGWHMLTSCQTTSTRVIHVHLQQPARYSLCDFSVCCVVS

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FIGURE 4331

GGCAGATGTACAGAACTGAAATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAAC
CCAAATTGGCGTTTGTCTTCAGAATCAGAGGTATCAATGGCGTGAGCCCAAAGGTTGAAAGATGTTGCAGCTTC
TTTGCCTTCGTGAGTCTTCAATGGAACCTTCGTGAAGCTCAACAAGGCTTCGATTAACATGCTGAGGATTGTAG
AGCCATATACTGCATGGGGGTGCCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAA
TCAATAAGAAGCAAATTGCTTTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCA
TGGAGGATCTGATTTCATGAGATCTATACTGTTGGAAAACACTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCA
AATTGTCTTCTCCACGAGTTGGAATGAAGAAAAAGACCACCCATCTTGTAGAAGGTGGAGATGCTGGCAACAGGG
AGGACAAGATCAACAGGCTTATTAGAAAAATGAACCAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTT
AATAAACAGTACCTGCTCTCAAATTG

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FIGURE 4332

MYRTEIRMARMARKAGNFYVPAEPKLAFFVFRIRGINGVSPKVRKMLQLLCLRRVFNGTFVKLNKASINMLRIVEP
YTAWGCPNLKSVNELIYKRGYKINKKQIALTDNALIARSLGKYGIICMEDLIHEIYTVGKHFKKEANNFLWPFKL
SSPRVGMKKKTTHLVEGGDAGNREDKINRLIRKMNQGVYHDYFSKLVG

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FIGURE 4333

ATGATAAATGGTATTTCAGTACTGGACTGTGCCTGAGGAGAGGCTTCAACTGAATGTGGATGTTGATGACCTGGAC
TGTCAGGGTCCACCTCTACCTCCCAGAGCCTCAGAGCCCACAAGACAAAAAACTGAGCCTGTGAAGCGATTAAAA
GTCTGGATCTTAGAGGGAGCTCCAAGGAAAATAAATCCAAAATGCCTCATCTGGGAGGTGAAGCAATGATTGAA
CAAGGATTGCTGAGCTTTGGCAAGGAAGAAAAGGGCACTTGCTGTCAACAGAAAGCAGGTGTTCTGGGAAGACTG
GAGGAGCTGTGGGTGGTGAGGCAGACACTGGGCTTGGCTCTGGAAGCCCGAACTCAGAACATTAAGCTGAACCAT
CTGAAGCTCCTCCACGAAACAGGATATTTGTTGCAGACACTCAGAGAATCTCCAGAGAAACCTGGCTTAGAGGCC
GTGGATTGAGGGACATCGCTGAAGCCCTGTGCTGGTGGAATCCCACTACTGATATCTTGGGCCAGGAACTGCAT
TCTGGGAACCAAGCACTGGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAG
CAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGCATATT
ATATCTCAGGCATCGGGACAGGTCAGTGCCTATATTCTTCTTCTCCAAGCAGGCAAGCTTCATATTAGTGTCT
CCTTGTCTGGGGAACCTTTGA

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FIGURE 4334

GGGAAGGGCGGCCGACCCATATAAGCAGCCTGCGGGGCGTTCCCTCGGGTTGTGGTTGGTGTGCGGGTTTCGGTT
GGAGGACTCGTTGGGGAGGTGGCCTGCGCTTGTAAGAGACTGCATCCCCGAGACGATGGCGGAGGGAGATAATCGC
AGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGAGAAGTGATGCTGATG
GCTGATAAAGTCTCCGATGGGAAAGAGCCTGGTTTCCACCTGCCATCATGGGTGTGGTTTCTTTGGTGTTCCTG
ATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTTCTGTTTTGTTATGTTTTTGTGCTTGGCTGACTAC
CTTGTTCCCATTTCTAGCGCCTAGAATTTTTGGCTCCAATAAATGGACCACTGAACAACAGCAAAGATTCCATGAA
ATTTGCAGCAATCTAGTAAAACTCGACGCAGAGCTGTGGGTGGTGGAAACGCCCTTTCACACTAAAGGAAGAA
AAACCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGACAACAAGTCCACAAC
CTGCTTCTCACCTACCTGATAGTGACTTCCCTTACTATTGCTTCTGGACTAAACCAACATGGAATCATTTTGAAG
TACATTGGAATGGCCAAGAGGGAGATAAAACAACTTCTCAACAAAAAGAAAAAGAAACGAATGATTTCATCTGC
TTTAATCAGTGTGATTAATGCAGCACCCATTGCCCCGGGAACCGTTTCTGCTGTACTATCTGGATACTAAAATGT
TACGGAAGTAGCTCTTTGTTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCGCCAAGTAAGGCTTCG
TGCATAGTGTCTTCATGTGCGGTATAGTTGAGCGCGTTCTTAGCAGTTGGCTTCATGGACAACCTCATTAGTGTTT
TGACTTTTCTTACCCAGCGTTAATTGAATTCCTGCTTTTAGACAACCTTCCTTTTGTAGTGGTGAACCTTGCCCT
TTAGTACAGTTCAAGTGAATCTGGATAATTGTTTCATCTTTGCTTTAGCTTAGATACCATGTAGTGGTCTGTGGCT
ACAGGAAGCTGGTTCTGTCTGCTTCCACAGTCTGCTTAAAAAAGTGTCTGACTTCGTGAATATAGAGACCAAGTT
TACCACTTCTGATGAAGAGACCAATTAAGATTCAATCCTCATCTGTTTCTTTCCAGTGGGAGAAGAGTCCCAT
GAAATAAGATGAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTGCAAAGCTTAGCAATTTGTAGG
AACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTTCGTCCCTTGCACTTAGACTCGA
AGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAGATTGCATTTAGGATTCTAGCATGCTTTA
ATTTAGATTTTTCAGCTGACATTAGCTATAGTATACAGTAGGTTAAGACTCATGTCTATGACTTTCACCTAAGA
CTGGCAAAAGGACAGCAGTCTTCTATGTTTAGTCAATATTCATTTAGTAGAAGATAATCTATCTAATTTTGA
GACCAGAATAAGCCTTTTAAAGGTAAACCTCAAAATATCATTTTATGGTAATACTGACCATTTTAGTCCCTTAGG
TTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCCCTAGAGATTTCTCCCTGAAAAATACAAGGGC
TGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCTCTGGTCTACAAAGATTTTATAACTCCTTGGAAGGCT
TCTTATAATCATTCTTAACTTCTTGGTAGCTAGAAATTTAGAGTAGTTGAAATCTTTAGGAATGAACCTTCTGAGG
GCCAAAAAATGTGACTGACGGGAACAATTCTTAACTGATTAAGTGTGTTTCTCCTCTTTAATATTGCTGTGAA
ACTGATGTTGTACCTTGTGGTATATCTGTCCCTATTAAATAAGTGTGTTTCTCCTCTTTAATATTGCTGTGAA
CAGTGGTGGCCATTGTAGCATATGTTTGATTTTTTTTATTATTTTATAAGAAAACACGTTAATTTTACCTTAC
TTTCATTGTAAATAAGCCTGTCTTCCCTATCTGGATTTTTTGTGTGCATACATATTCTACTGATTAACCTACTTTG
CAGTTTTAATCCTGTATTATTCTTCTACTTTGTTTTGTGTAAAAGGGGAAAAAATAAAAAAGCTGGAATCTTC
ATGCTCTC

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FIGURE 4335

GCCCCAGGAGCCCCGGCGGGTCCGGGACTCCCGTCCGTGCCGGTGCGGGCGCCGGCATGTGGCTGTGGGAGGACCA
GGGCGGCCTCCTGGGCCCTTTCTCCTTCCTGCTGCTAGTGCTGCTGCTGGTGACGCGGAGCCCGGTCAATGCCTG
CCTCCTCACGGGCAGCCTCTTCGTTCTACTGCGCGTCTTCAGCTTTGAGCCGGTGCCCTCTTGACGGGCCCTGCA
GGTGCTCAAGCCCCGGGACCGCATTTCTGCCATCGCCACCGTGCGGCAGCCACGACGCGCCCGAGAACACGCT
GGCGGCCATTTCGGCAGGCAGCTAAGAATGGAGCAACAGGCGTGAGATTGGACATTGAGTTTACTTCTGACGGGAT
TCCTGTCTTAATGCACGATAACACAGTAGATAGGACGACTGATGGGACTGGGCGATTGTGTGATTTGACATTGA
ACAAATTAGGAAGCTGAATCCTGCAGCAAACCACAGACTCAGGAATGATTCCCTGATGAAAAGATCCCTACCCT
AAGGGAAGCTGTTGCAGAGTGCCATAACCATAACCTCACAACTCTTCTTTGATGTCAAAGGCCATGCACACAAGGC
TACTGAGGCTCTAAAGAAAATGTATATGGAATTTCTCACTGTATAATAATAGTGTGGTCTGTTCTTTCTTGCC
AGAAGTTATCTACAAGATGAGACAAACAGATCGGGATGTAATAACAGCATTAACTCACAGACCTTGGAGCCTAAG
CCATAACAGGAGATGGGAAACCACGCTATGATACTTTCTGGAAACATTTTATATTTGTTATGATGGACATTTTGCT
CGATTGGAGCATGCATAATATCTTGTGGTACCTGTGTGGAATTTACAGCTTTCCTCATGCAAAGGATTTTGATC
CCCGGCCTACTTGAAGAAGTGGTCAGCTAAAGGAATCCAGGTTGTTGGTTGGACTGTTAATACCTTTGATGAAA
GAGTTACTACGAATCCCATCTTGGTTCCAGCTATATCACTGACAGCATGGTAGAAGACTGCGAACCTCACTTCTA
GACTTTCACGGTGGGACGAAACGGGTTTCAGAACTGCCAGGGGCCCTACACAGGGATATCAAAATACCCTTTGTG
CTAGCCCAGGCCCTGGGGAATCAGGTGACTCACACAAATGCAATAGTTGGTCACTGCATTTTACCTGAACCAA
GCTAAACCCGGTGTGTCACCATGCACCATGGCATGCCAGAGTTCAACACTGTTGCTCTTGAAAATCTGGGTCTG
AAAAACGCACAAGAGCCCCTGCCCTGCCCTAGCTGAGGCACACAGGGAGACCCAGTGAGGATAAGCACAGATTG
AATTGTACAATTTGCAGATGCAGATGTAAATGCATGGGACATGCATGATAACTCAGAGTTGACATTTTAAACTT
GCCACACTTATTTCAAATATTTGTACTCAGCTATGTTAACATGTACTGTAGACATCAAACCTTGTTGCCATACTAA
TAAATTTATTTAAAGGAGCACTAAAGGAAAATGTGTGCCAAGCATCATATCCTAAGGCATACGGAATTTGGGA
AGCCACCATGCAATCCAGTGAGGCTTCAGTGACAGCAACCAAAATGGTAGGGAGGTCTTGAAGCCAATGAGGGA
TTTATAGCATCTTGAATAGAGAGCTGCAAACCACAGGGGGCAGAGTTGCACTTTTCCAGGCTTTTAGGAAGCT
CTGCAACAGATGTGATCTGATCATAGGCAATTAGAACTGGAAGAACTTCCAAAAATATCTAGGTTTGTCTCAT
TTTACAAATGAGGAACTAAACTCTGTGGAAGGAAGGGGTTGCCTCAAAAGTCACAGCTTAGCTGGGCACAGTG
GCTCATGCCGATAATCCAGCAATTCAGAAAGCTGAGGCAGGAGGATTACTTGAGGCCAGACTGGGCAATATAGC
AAGACCCCATCTCTAAAAAATTAGGCATGGTGGTGCATGCCTGTATTCCAGCTACTCAGGAGGTTGAGGTGGGA
GGATCACTTGAGCCAGAAGTTCAAGGCTGCAATGAGCCATGATTACACCACGGCACTACAACCTTGGTGGCACA
GTGAGAACCTGACTCTTAAAAA

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FIGURE 4336

MWLWEDQGGLGPFSLLLVLLLVTRSPVNACLLTGSLEFVLLRVFSFEPVPSCRALQVLKPRDRISAIHRGGSH
DAPENTLAAIRQAAKNGATGVELDIETSDGIPVLMHDNTVDRTTDGTGRLCDLTFEQIRKLNPAANHRLRNDFF
DEKIPTLREAVAECLNHNLTIFFDVKGHAHKATEALKKMYMEFFQLYNNSVVCSFLPEVIYKMRQTDRDVITALT
HRPWSLSHTGDGKPRYDTFWKHFI FVMMDILLDWSMHNILWYLCGISAFMLQKDFVSPAYLKKWSAKGIQVVGWT
VNTFDEKSYYESHLGSSYITDSMVEDCEPHF

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FIGURE 4337

CTCTTTCCGCCATCTTTCCGCGCCGGCCACAATGGTGCGCATGAATGTCCTGGCAGATGCTCTCAAGAGTATCAA
CAATGCCGAAAAGAGAGGGCAAACGCCAGGTGCTTATTAGGCCGTGCTCCAAAGTCATCGTCCGGTTTCTCACTGT
GATGATGAAGCATGGTTACATTGGCGAATTTGAAATCATTGATGACCACAGAGCTGGGAAAATTGTTGTGAACCT
CACAGGCAGGCTAAACAAGTGTGGGGTGATCAGCCCCAGATTTGACGTGCAACTCAAAGACCTGGAAAAATGGCA
GAATAATCTGCTTCCATCCCGCCAGTTTGGTTTCATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGA
AGCAAGACGAAAACACACAGGAGGGAAAATCCTGGGATTCTTTTCTAGGGATGTAATACATATATTTACAAATA
AAATGCCTCATGGACTCTGGTGCTTCCACTTGGTGCTTTTGGACCTTTACAGCAGTGTAGCCACAGCTTCTGCGG
CAGCATGCAGTTGCTTCGTTTATCGGTGAATGCGATTCCCAAGATTCAAGTAGTTCTCGTGCCCTCAGCCTCCTGAG
TAGCTGGGATTACAGGTGTGTGCCACCATGTCTGGCTGATTTTGTATTTTGTAGAGGTGGGGTTTACCATG
TTGGCCAGGCTGGTCTCGAACTCCTGATCTCAAGTGATCTGCCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAG
GTGTGACCACCACGCCCTGCGTTAAGAATTGTTCCAAGAGAACTGGTGCCACTTGCAGGTGCCCATTTGAAGTGC
AATGGGCACTGTTGATCACTGAGGAGGTAGTGGGTGCTGACCCGGTGCTGGGGCCTGTCCCCTAGTCTCTGCTTT
GCCCTTGGCTAGCTAGGTGGTGTGCCAAGTGGGGAGAGAAGCTACCTTATTAAGGGGCATGGATCAGCTTCTCTGA
AAGGAGGGCCTGCCTCTGTAAAGATATGGGAAGTCGCTGAGAATGTTACAGAACGGCCCTAGAGATGGGGCAGATA
ACGGCCCCCATTTGTGAGAAGTGAGTTGGGAGGCATGTTTGGGGCCTCTGATGTTTGGGAGGCTGTGGGTAATTA
ACATGAGTTTGGGGTCCAGCAGCAGAATTCAGGTTTCTCTTCCACTCAGTAACCTCAGCATCCGTATCTGTAA
TGGGAATGATACAAAACCTATCCCCAAGTTGAGGGAAAAATGAGATTGTGTAAAGCGCACTTGGCACATGACAGT
CACAAGCATGGGGACAGTGAGTCCAGAAGGATTTTCTTATGCCAGCATTGTAAGCCCTAGGATCACAGGGCTCTG
GCTTGTTTAACCATCGTGTCTCTGGTCCCTAGCCTGCAAACCTGGTGTGTAGGGATGCCTCAGTCGCTTACAIGT
TGATTGAGTGAATCGTGGTTTCTTCTGGACACTGACTTCAAAAATAAA

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FIGURE 4338

CGCAGAGTCCCCGGGCCAAGATGGCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGGACCCCGGGC
TGCCGGCTATATCGGGTAGAGGGGCCCCGGCCGCCAGGGAGGGCGTGGTGGGGGCATGGCTGAGCCGCAAGCTGA
GCGTCCCCGCCCTTTGCGTCTTCCCTGACCTCTTGGCGCCCCGAGCGCTGCTGACATTGAGACCTGGTGTAGCC
TTACAGGAACAAAACATAACCCCTTTTATTGTACTGCTCCTTCCACACGAGTGCCCTTTGGCCAAAGAAGATT
ATTATCAGATATTAGGAGTGCCTCGAAATGCCAGCCAGAAAGAGATCAAGAAAGCCTATTATCAGCTTGCCAAGA
AGTATCACCCCTGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTCTCCAGCTGGCAGAAGCCTATGAGG
TTTTGAGTGATGAGGTGAAGAGGAAGCAGTACGATGCCTACGGCTCTGCAGGCTTCGATCCTGGGGCCAGCGGCT
CCCAGCATAGCTACTGGAAGGGAGGCCCCACTGTGGACCCCGAGGAGCTGTTTCAAGGAAGATCTTTGGCGAGTTCT
CATCTCTTTCATTTGGAGATTTCCAGACCGTGTTTGATCAGCCTCAGGAATACTTCATGGAGTTGACATTCAATC
AAGCTGCAAAGGGGGTCAACAAGGAGTTACCCGTGAACATCATGGACACGTGTGAGCGCTGCAACGGCAAGGGGA
ACGAGCCCCGGCACCAAGGTGCAGCATTGCCACTACTGTGGCGGCTCCGGCATGGAAACCATCAACACAGGCCCTT
TTGTGATGCGTTCCACGTGTAGGAGATGTGGTGGCCGCGGCTCCATCATCATATCGCCCTGTGTGGTCTGCAGGG
GAGCAGGACAAGCCAAGCAGAAAAAGCGAGTGATGATCCCTGTGCCTGCAGGAGTCGAGGATGGCCAGACCGTGA
GGATGCTGTGGGAAAAAGGGAAATTTTCATTACGTTTCAAGGTGCAGAAAAAGCCCTGTGTTCGGAGGGACGGCG
CAGACATCCACTCCGACCTCTTTATTCTATAGCTCAGGCTCTTCTTGGGGGTACAGCCAGAGCCAGGGCCCTGT
ACGAGACGATCAACGTGACGATCCCCCTGGGACTCAGACAGACCAGAAGATTCGGATGGGTGGGAAAGGCATCC
CCCGGATTAACAGCTACGGCTACGGAGACCACTACATCCACATCAAGATACGAGTTCCAAAGAGGCTAACGAGCC
GGCAGCAGAGCCTGATCTGAGCTACGCCGAGGACGAGACAGATGTGGAGGGGACGGTGAACGGCGTCACCCCTCA
CCAGCTCTGGTGGCAGCACCATGGATAGCTCCGAGGAAGCAAGGCTAGGCGTGAGGCTGGGGAGGACGAGGAGG
GATTCCTTTCCAACTTAAGAAAATGTTTACCTCATGATATCCAGCCGAGGAAAAAGATCCACTGGAAACTAGG
CCGGGAAGCAGCAGCCCCCTCAAGGGCCAGGGCACCTGGGAGACGGGAGGATTCCAGAACAGCAGCACTGAGCTC
CCACCCGCAGAGCCTCTGGACGGCCTTGGCAACAGCAAAATCATGGGACAACACCTCTCTCCACGGAAAGGTCAC
AGTGGACAGCCCGGCAGTAGGATGCAGCCCCAGAGGCTGGTGGCAGTTTCTGTCCATTGGTAGGTACGGCCC
CTGGCTCAGGCAGAGGGAGATGGTTAGACTCTTGCAGGGCTAAACTCTAATTGGAATTGAATATTGTGGATAT
CTTAGTTAAAGGCCATGCTTACAGCTTAGAAATGAAGCCTTAAGCTGCATCAAGTTACGAAGTGATTAATTTCTT
TCTCAGCAAACCTCCGGGAGGTTCCAGAAATGAGTTCTTCTGACAGGTTGTCTTCACTGGGAGCGTGGGGCCCCC
AGGCCCCACCAGCACCGTCTCCCTAATGAGGGGCCCTGCCGAGGCATCAGCTGCTCTGCTCAGTTAGTTTTTA
TTCCCGGGGTACCAAGCAGCTGCACAGTCGGTGCCTGGGAGGCACGTAGAGGCCAGAGAGTCCCTGGGGGTTCT
GCTCTGACCGTGTGGGTGGTGATCCTTGTGAGGATGTACAGTCCTTGTCTCCACCCCATCCGGGATGGCCGCTG
TCCCTGACTATTGAGTCTGTGTTGTGTAAGCCAGGCATGGAGGGCTCCTGCCCTTCTGCTGAGCCACAGCCCATT
GCAGCACTGTGCTGGCCAGACTTCAGCTGCCCTTGGGAAGTGAAGCCCTGCCACTGTTGCTAGTCAGGGGCTTGGT
TCTCCACTTACACTGTTGACATCTATTTTCTGAAGTGTGTTTAAATTATTAGTGCTAATCATTGTTTTTCTT
TTGTAATGTTGATTAGAAAAGGAAAGCACAGGCTAAGCAGTTGAAGGTTCCCCACCATTAGTGAGAGCAGAA
CCCCATTCCCCAGCCTCTGCTGGTAGCATGTGCGAGTTTCCATGTGTTTCAGGATCTTCGGGCTGTCGTTAGAC
AGGTTAATGAAGAACCTTCTCAACAGTTTCTTTTGTGTTTCTTTATAATTCACTAAAAATAAGCATCTATTA
GTGTCTG

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FIGURE 4339

MAARCSTRWLLVVVGTPRLPAISGRGARPPREGVVGAWLSRKLSVPAFASSLTSCGPRALLTLRPGVSLTGTKHN
PFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDVK
RKQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSSFGDFQTVFDQPQEYFMELTFNQAAKGVN
KEFTVNIMDTCERCNGKGNPGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGGRGSIIISPCVVCRGAGQAKQ
KKRVMIPVPAGVEDGQTVRMPVVGKREIFITFRVQKSPVFRRDGADIHSDLFISIAQALLGGTARAQGLYETINVT
IPPGTQTDQKIRMGGKGIPRINSYGYGDHYIHIKIRVPKRLTSRQQSLILSYAEDETDVEGTVNGVTLTSSGGST
MDSSAGSKARREAGEDEEGFLSKLKKMFTS

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FIGURE 4340

ATGGTGGACAAGAAACTGGTGGTGGTTTTTCGGAGGCACAGGTGCCCAGGGTGGCTCCGTGGCCCGCACACTCCTG
GAAGATGGGACATTCAAGGTTTCGAGTGGTGACCCGAAACCCTAGGAAGAAGGCAGCAAAGGAGCTGAGGCTGCAA
GGTGCAGAAGTAGTGCAGGGAGACCAAGATGACCAGGTCATCATGGAGCTGGCCCTGAATGGGGCTTACGCCACC
TTCATCGTGACCAATTACTGGGAGAGCTGCAGCCAGGAGCAGGAGGTCAAGCAGGGGAAGCTGCTCGCTGATCTG
GCCAGGCGCCTGGGCCTCCACTATGTGGTCTACAGCGGCCTGGAGAACATCAAGAAGCTGACGGCAGGGAGATTG
GCCGCCGCGCACTTTGACGGCAAAGGGGAGGTGGAGGAATATTTCCGGGACATTGGCGTTCCCATGACCAGTGTG
CGGCTGCCCTGCTATTTTGAGAACCTCCTCTCCCACTTCTTGCCCCAGAAAGCCCCAGACGGAAAGAGCTACTTG
CTGAGCTTGCCACAGGTGACGTTCCCATGGATGGCATGTCCGTGTCTGACCTGGGTCTGTGGTGCTCAGCCTT
TTGAAGATGCCAGAAAAATACGTTCGGCCAGAACATCGGGCTGAGCACTTGCAGGCACACGGCCGAGGAGTACGCT
GCCCTGCTCACCAAGCACACCCGCAAGGTCGTGCACGATGCCAAGATGACTCCTGAGGACTACGAAAAGCTTGGC
TTTCCCGGTGCCCGGGACCTGGCCAACATGTTCCGTTTCTATGCCCTGAGACCCGACCGTGACATCGAGCTGACC
CTGAGACTCAACCCCAAGGCCCTGACGCTGGACCAGTGGCTGGAACAGCACAAAGGGGACTTCAACCTGCTGTGA

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FIGURE 4341

MVDKKLVVVFGGTGAQGGSVARTILLEDGTFKVRVVTNRPRKKAKELRQLQGAEEVQGDQDDQVIMELALNGAYAT
FIVTNYWESCSQEQEVKQGKLLADLARRLGLHYVVYSGLENIKKLTAGRLAAAHFDGKGEVEEYFRDIGVPMTSV
RLPCYFENLLSHFLPQKAPDGKSYLLSLPTGDVPMDGMSVSDLGPVVL SLLKMPEKYVGQNI GLSTCRHTAE EYA
ALLTKHTRKVVHDAKMTPEDEKLGFP GARDLANMFRFYALRPDRDIELTLRLNPKALTLDQWLEQHKGDFNLL

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FIGURE 4342

GACCAGAGGAGCGAGAGCAGCAAGAACCACACCCAGCAGCAATGTCAGCGGAAGTGGAAACCTCAGAGGGGGTAG
ACGAGTCAGAAAAAAGAACTCTGGGGCCCTAGAAAAGGAGAACCAATGAGAATGGCTGACCTCTCGGAGCTCC
TGAAGGAAGGGACCAAGGAAGCACACGACCGGGCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACA
TTAAGAAGGAGCTGTTTAAAGCTGGCCACCACGGCACTTTACTTCACATACTCAGCCCTCGAGGAGGAAATGGAGC
GCAACAAGGACCATCCAGCCTTTGCCCCCTTGTACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGG
ACATGGAGTATTTCTTTGGTGAAAACCTGGGAGGAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGC
GGATCCACTACATAGGGCAGAACGAGCCGGAGCTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCT
CGGGGGGCCAGGTGCTGAAGAAGGTGGCCCAGCGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCT
ACCTGTTTGAGAATGTGGACAATGCCCAGCAGTTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGA
ACATGAAGACCAAAGAGAGGATCGTGGAGGAGGCCAACAAGGCTTTTGAGTATAACATGCAGATATTCAATGAAC
TGGACCAGGCCGCTCCACACTGGCCAGAGAGACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACA
TGCGTAAATGCCCTTTCTACGCTGCTGAACAAGACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAG
CTATGGCTGTGCTGAGGAAGCCCAGCCTCCAGTTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGG
CCTGGTACTACATGTGAAGCACCCATCATGCCACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTT
CTCCAGCCCTGACTAACTACCACCTCAGGTGACTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAA
GCCAGATGCTAGAGCCTCTGCCTGACAGCATCCTCTCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCC
TGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCCCCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCC
TAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTACATGGGTGACTATCTCCCTGTTGGAGGTGAGTGGCCTGTA
AGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCTGCTGTACAACCTCTGGGCCTCTCTTGGACCCTGGGAGTGA
GGGTGGGTGTGGGTGGAAGCCTCAGAGGCCTTGGGAGCTCATCCCTCTCACCAGAATCCCTCTAACCCCTTGGG
TGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCGCGCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTT
GCAAGCT

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FIGURE 4343

MSAEVETSEGVDSEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFR TAMAVLRKPSIQFIL
AAGVALAAGLLAWYIM

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FIGURE 4344A

CGGCCTGGTCCGGGCCATGTCCGCGTGAGGACCCCGCCGCTGTGCGCCGCTCCCGTTCCGGCCCTGGCCCCCTCTGC
CCGGCAGCGCCGCGCACCATGGGGCTCCATTCTCAGCCGCCGCATCGCGGGGGTGGAGGACATCGACATCCAGGCG
AACTCGGCCTATCGCTACCCCTCCGAAGTCCGGAACTACTTTGCTTCGCACCTTTTTTCATGGGAGGAGAGAAATTC
GACACCCCCCACCCTGAAGGTTACCTCTTTGGAGAGAACATGGATCTGAACCTTCTGGGCAGCCGCCCGGTCCAG
TTTCCCTACGTCACTCCTGCCCCCCACGAGCCCGTGAAGACGCTGCGGAGCCTGGTGAACATCCGCAAAGACTCC
CTGCGGCTGGTGAAGTACAAAGACGATGCCGACAGCCCCACCGAGGACGGCGACAAGCCCCGGGTGCTCTACAGC
CTGGAGTTACCTTCGACGCCGATGCCCGGTGGCCATCACCATCTACTGCCAGGCATCGGAGGAGTTCTTGAAC
GGCAGGGCAGTATACAGCCCCAAGAGCCCTCGCTACAGTCCGAGACCCTCCACTACAAGAGAGGGGTGAGCCAG
CAGTTCTCCCTGCCCTCCTTCAAGATTGACTTCTCGGAATGGAAGGATGACGAGCTGAACCTTTGACCTGGACCGG
GGCGTGTTCAGTAGTCATCCAGGCTGTGGTGGACGAAGGAGATGTGGTGAAGTGACTGGCCACGCCCACGTG
CTCTGGCTGCCTTTGAAAAGCACATGGACGGCAGCTTCTCTGTGAAGCCTTTAAAGCAGAAGCAAATGTGGAC
CGGGTCAGCTACCTCCTGACGAGATCTATGGCATTGAGAACAAGAACAACCAGGAGACCAAGCCCTCGGACGAC
GAGAACAGCGACAACAGCAACGAGTGTGTGGTGTGCCGTGTCGACCTGCGGGACACGCTGATCCTGCCCTGCCGC
CACCTGTGCCTCTGTACCTCCTGCGCCGACACGCTGCGCTACCAGGCCAACAACTGCCCCATCTGCCGGCTCTTT
CCGGGCCCTCTGCGAGATCCGGGCGGTGCGGAAGAAGCCAGGAGCCCTGTCCCCCGTGTCTTCAGCCCCGTCT
GGCCAGAGCCTGGAGCATGATGAGCACTCTTGTCCTTTAAAAATCAAAGCCGCACCCCGCCTCCCTGGCCAG
CAAGAAACCTAAAGGGAAACAACTCTGACAGCGTCCCACCTGGCTACGAGCCCATCTCGCTGCTCGAGGCGCT
CAACGGCCTCCGGGTGTCTCCCCGGCCATCCCCTCGGCCCTCTTTATGAAGAAATCACCTATTAGGCATCTC
GGACGGCCTGTCCAGGCCAGCTGTCCCCTGCGGGTATCGACCACATCTGGACAGCAGCCGCCAGAAGGGCAG
GCCGACAGCAAGGCCCCGACAGCACCTACGGTCCCCGTCTTCCCCATCCACGAAGAGGATGAGGAGAAGCT
CTCCGAGGACGTGGACGCCCCCTCCCCACTGGGTGGCGCAGAGCTGGCCCTGCGGGAAGCAGCTCCCCTGAGAG
TTTCATAACAGAAGAGGTTGATGAGTCGTGCTCACCACAGCAAGGGACCCGAGCAGCTTCCATTGAGAATGTCT
GCAGGACAGCAGCCCCGAGCACTGTGGCCGAGGCCACCTGCTGACATCTACCTGCCAGCCCTGGGGCCCGACTC
CTGCTCTGTTGGTATAGACGAGTAAGCCGGTACGTGACCTCCAGACGCGCTTCGGGGGCTCTGACGCGCTCT
TGGAGAGAGGAGCCCTCCCCTGCTCTCTGCGGGGGTTCTTCTGGTTTTTGGGTCTTCGTCCGCATCCGCATCT
TCCCAGGGGCCCTGGATTCCGAATCCAGAGCTCTCCAGTGGCTGCTGCACCTTCCCCAGAAAGTGGCCTCTTG
GGGTCTTGACTTTCGGGGCCAGAGGTCTCTCCATCTGGACTAGGCGGCCGGTCAGGCTCTTCTTCAGCCTTGA
GGGGCCCTGGAACAGTCCCAGCCCAGGCAGGGAGACAGACAGCCAGGTGCGCCAGAGCCACTGTCCACTGCG
GGAGGAGCCTGGGCTGGCCTTGTTCCGGATGGTCCCACCATGAGTTCGATCGGTCTGACGACAGACAGTTAG
GACGCTCAGCAGGTCCACTCCCGTGTTCGGTCTGTGCTTTAACAATTCTAGGGAAAGAAATGCGCCCCGATTGG
GAGAGCCCCTGATCAGCTCTTCCCAAGCTCAGTCCCTGTCTCTTGGAGGGAGTCCGTCTCGAGGGGCCCTCTG
GTGCCCAGGGGAGAGTATCTTGGCTCTGTCTGAGGGCGTCCGCTCACACAGCCACCTGCTCCCCGCTCCCTC
CTTCCCTTGTGAGCATGGCCACCCTGGGCTGGCATCACCATGGGCCTGGCACACAGTCCCTCGTGGGCTGCCTT
TGTGCCATGAGCCCACTGCTGCCGACTCACCTGTCCCTCCCAGTACTGGAACCTTCTGGAACACCAGCAATAAA
GATAGGAGGCCCTGTGAGGTTGGCATCCCCATCCCCCAAGAGGCGCCCTCTACCAGGTTGGCCAGGTGAGT
GTTTTACAGAAGGCGGCTCTGTCCAGGCAGTGGTTCGCACCTATAAGCCCGGTACTTTGGGAGACCGAGGGGATA
GATCACTTGAGCCAGGAATTCAAGATCAGTGTAGAAAACATAGACCCCTCTCTATGAAAAATAAAAAATTGGC
TTGGGCGTGGTAGCTTGTGCTGTGGTCCCAGCTACTCAGGGGTGCTGAGGTGGGAGGATTGCCGAGCTGGGGA
GGTCAAGGCCCATCCAGCCTGAGACGCTGTCTCAATAAAAAAATAACACACACACACACACACACCGGGGAGAGAGAGAAG
CTGAGACCCTGTCTCAAGAAAAAATAACACACACACACACACACACACACACACCGGGGAGAGAGAGAAG
GCAGCTCCAGGAGTGCCACCAAAATGTAGGCAGACGATTGGGGACCTCTGCCTTCCCAGAGGGTCTTGGCACA
CAAGCTGCGTGACGCTCTGGTCTGCCGAGGCCCATGCAGCCTGCTGGGAGGTGCCTGGCCGGGGGTGCAGGCTCT
AAGAGGCCCTTTCCCCTTGGGTGGACTTGAGCCGGGTGAGGAGAACTTCGCTTCTTTTACTGCGCTCTGCATT
CCCATGAACCTCTGTCTTCTTGAGCCAGCGAGTCCCTCTGTTGACCCTGTCTGAGCCATTATACCCCTAGAT
TGAAACAGTCAGCACCTTTTACAGCGCCCCGGCTGCGCATCGGTGGAAGGTGCCGTGCGAATGTACGATTACAG
GTCAAGCTTCCGGAGCTGGGGAGTGAGGTGTGATCTAGAACAGGGCTCACAGCCTCGGAAACCTGCTCTCGCCG
CGCCCCCGAAGAAAATAGACGCCCTTACCGGAGAGTGGGGCTGGGCCGTGTCTGCTGGGAGCCATGTGTACAG

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FIGURE 4344B

GGCTGGTGGCTGGGTGTCAGGCAGCCCTGAGGCCATGCTGGCCCCGTCCCAGGCTCTGCACCAGCACCATTTGCC
AAGCCCCAGGGACGCCAGACCCATCTGGGGACAGCGCCCGGGCGTCTGTCAGGCCACAGTCTGGGCATTGGGG
CTCTGTGGGAGGCTCCTCTCTTTGCCCTTGCACTAGCCATCCGGGGGCTACTCTGAGCACGGGCTTGTCTCACCC
AGGGCCGCTCCCCACCCCTGCACCCTGGGTTGACCGAGTTCCACCCTAACCCAGCCGTAAGAACCTTGGCAGGAC
AGTGGCTGGCCACATCCAGGAAACCGGAACCAGGGCAAGGGCAGGAGGCCAGAGGGCATCCACCGCGGTGCCG
TGTCGCGCTCTGACTCGGGGCTGCAGATCTGCTGTGGGTGTCCGGGGATCTGGGATCGTCTGTCCCAAGAGGGAC
ACAGCGTATTTGGCACAGTTAGGGAGTCCCCGGGCCCTTGGTGTGCTCACATCTGAGTGAATGCTGTTGTGGCCA
CAGGCGCGGGAGTGGGGGTGCTGGATGGCCAGCCCCCTCTGGGGCTCCAGATCGGTAGGAGCGGGTGGCGTGGC
ACCAGGCATCCGAGTGTGACCTCCTCCCTCTGCTCCACCTGCAGGACGGGCCACCTCCATGGAGACGGCCAC
GGCCTCGCCACCACCAGCCCCACCTGGCCTCCACTTGGTGGCCCCAGCCCCGATCCCAGCGCCGCCGAGCTGACC
CCACTCTGAGAGCCTGGCCGAGCTGGCAGCATGGAGCCCTCGGCTCCCCAGACTTTGCCGAGGGGCTGCTCCGGA
CCCCGTTGTGAGCCGGCCTCCTGTCTGCATGCCCCCTGTGGCCACCAGGCTCCGAGGGGCGGTGGTGAATCTTGA
TCAAAGAGCACAGTGAAGTGTCCCTTCTGAGTCTCCCTTTTCTACAGTTGATATATTTGTAAGTGGTACAAGATG
AAGGACAGCAGCTTTCCATCCCTAGTTTCAAGAGCCCCGTTTCCCCAGGGTCTGTGGGCTGAGCGGCTGGGGCTGG
GGCTGCCACGCTGTGGCCTCCGCTGGCTCTGCCTGCTCCTGCAACAGTGGGTCCCTGCCCGGAGAACTCAGGAG
GCCTGCAGAAGAGAACTGATTGGTGGTGAAGCACCATTCTACAGATGTTTCAAGGGCAGTGGGGGCTCCAGGC
ACGGTCAATGAAGGAAACAGTGCCTGTCCACCCACCCTGCGTGTCACTGTGGCGGCTGGCTGTGCTGCTTTTT
GTCCTCTGCGGTGTTTGGCGGGCCTCAGTGGCTCCCTGGTGGCTGTGCGCTGGGGCCCTCAGTGTGCGGGCCT
TGGGGTGCATGGGTGCCGCCCTGGGCAGCTAGAGTGTCTCAGCCGGTGTGGGCTGGCCGAGGGGCGGAGGCA
CAGCTGCTTCCAGCAGCCAGCATTAGTGGCCTTGTACCAAGCTCCACACCTCCTCCTGGTGTGGCTTTGGTG
ACATACAAGGCCCTCCAGGTGCAGGGGCTTCTGTTTGGCAGGCCCCCTGCCAGGGAGGACCTGGTGGCTCCTC
ATTCTCTTTTGCCATTGGAATGTCCCTTGCAGTTCTCTCTCTTTTTTTTTTTTGGAGATGGAGTTCACTC
TTGTGCCCCAGGCTGGAGTGCAGTGGCTCAATCTCGGGTCACTGCAACCTCCGCCTCCCGGTTCAAGTATCGT
CCTGCCTTAGGCTCCTGAGTAGCTGGGGATTACAGGTGCCTACCAGCATGCTCGGCTAATTTTTTTGTATTTTA
GTAGAGAAGGGATTTACCATGTTGGCCGGGCTGGTCTCAAACCTCCTAAGGTATCCACCTGCCTCGGCTCCCA
GAGTGTGAGATTACAGGCGTGAGCCTCCGCGCCCGGCCCTTGCAGTTCTCTCTGATTGGTTTGTCTGTCT
CAGGCTTCTGTGGCAGGACTGGCCAGGGAGGAGGAAGCCAGCAGCACACCTGGGGAATGGGGTCCCGCCGGGA
GGCTTGGCCTCTGGGCGACCTCGTCTGTTTTTTTTTGTGTTGTTGTTGTTTTTTTAAAGGTAAACCTCCTGGGC
CGCAGATGGCAAAGGGAGTGCCTGGGCTGGTGACCCAGGGCTGGATCCACCCCTGCGGAGCCCTGGGCCAGGCA
GGTGTCTGCTGCTACCTGGCTCTGGAGGGCTGCCCTGCAGTGGGCTGGGACAGGTGGCTGTGGGGCAGCT
CAGTACCTCCTGAGGCTCACGGTGGCTCCGAGCATGAGGTCCGCCTCCTGGGCGAGACCCAGCAGTGGACAGC
ATGGTCTCACACCCAGCTCCCTGCACACCCAGGCCAGCCACCCCTCCCGCTCGTGCACAGGCACGCAGATGCGC
TCACACGTACACACACAAATGCACGCCCACTTGACATGCTACGCACATGTTCCACATGCACACTCACGCT
CACACATGCTGTACGCATACACACGCACATACTCCTGCACATGTTCCCATGCATGTGTGTGCACTCGGACCG
AGCATCTCCACGCACCTCTACCCACCCCAAGCACCTCTCTCCCCCATGCACCTCTCCCAACAACACACACA
GCCCCCTGCACCGCCCGCCCCCGCCCCACCAAGGCCCCAGCCTCTGGCCATCAGTCTGGTGCCAGAGCTTG
CGTGAAGTTCGGGCGCAGAGTGGCCGCTGGGACTCCCATGTGCTGCCGTCTGATGTGCTCAGATGGGCTCATC
GTTGGTTCGTTTTTACTGTATATTTATAGTAATAAAATCATGCAGC

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FIGURE 4345

MGSILSRRIAGVEDIDIQANSAYRYPKSGNYFASHFFMGGEKFDTPHPEGYLFGENMDLNLGSRPVQFPYVTP
APHEPVKTLRSLVNIRKDSLRLVRYKDDADSPTEGDGKPRVLYSLEFTFDADARVAITTYCQASEEFLNGRAVYS
PKSPSLQSETVHYKRGVSQQFSLPSFKIDFSEWKDELNFDLDRGVFPVVIQAVVDEGDVVEVTGHAHVLLAAFE
KHMDGSFSVKPLKQKQIVDRVSYLLQEIIYGIENKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCRHLCLCT
SCADTLRYQANNCPICR LFP GPPADPGGAEEARSPVPRVLQPRPGPEPGA

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FIGURE 4346

AGACGCCGGGGGCGGACGGGAGGACCGGAGGACCGAGGACAGAAAGATTGGTGGACAGGAGCAGCGGCCGGTGGG
GAGGGCGCTCGGCGGCGGCCTGCGGCCATGGCCACCGTGATGGCAGCGACGGCGGCGGAGCGGGCGGTGCTGGAG
GAGGAGTTCCGCTGGCTGCTGCACGACGAGGTGCACGCTGTGTTGAAGCAGCTGCAGGACATCCTCAAGGAGGCC
TCTCTGCGCTTCACTCTGCCGGGCTCCGGCACTGAGGGGCCCCGCCAAGCAAGAGAACTTCATCCTAGGCAGCTGT
GGCACAGACCAGGTGAAGGGTGTGCTGACTCTGCAGGGGGATGCCCTCAGCCAGGCGGATGTGAACCTGAAGATG
CCCCGGAACAACCACTGCTGCACCTTCGCCTTCCGGGAGGACAAGCAGTGGAAGCTGCAGCAGATCCAGGATGCC
AGAAACCATGTGAGCCAAGCCATTTACCTGCTTACCAGCCGGGACCAGAGCTACCAGTTCAAGACGGGCGCTGAG
GTCCTCAAGCTGATGGACGCAGTGATGCTGCAGCTGACCAGAGCCCCGAAACCGGCTCACCACCCCGCCACCCCTC
ACCCTCCCCGAGATCGCCGCCAGCGGCCTCACGCGGATGTTGCCCCCTGCCCTGCCGTCCGACCTGCTGGTCAAC
GTCTACATCAACCTCAACAAGCTCTGCCTCACGGTGTACCAGCTGCATGCCCTGCAGCCCCAACTCCACCAAGAAC
TTCCGCCCAGCTGGGGGCGCGGTGCTGCATAGCCCTGGGGCCATGTTGAGTGGGGCTCTCAGCGCCTGGAGGTG
AGCCACGTGCACAAAGTGGAGTGCCTGATCCCCTGGCTCAACGACGCCCTGGTCTACTTCACCGTCTCCCTGCAG
CTCTGCCAGCAGCTCAAGGACAAGATCTCCGTGTTCTCCAGCTACTGGAGCTACAGACCCCTTCTGATCACAGCAC
CCAGGAGCTTGTCTCCAGGAAGGCGGCCCGTCCCCTACTCATACCCACCACAGAGCACCAGCCAGTGCCAAACGC
CAGGCTGCTATTTATCTCCCTATCCACCCCTACCCACCTAACACATTGCACTGCCAGGAATGGAACTGGA
AGTGCCAGGAGGAAGGAAGGCTGGTTTGGTGGGGTAGTGGGGAGGTCAGGGAGGCGGGGCCAAGGGTGTCCCA
TTCCCAACACCGCCCTCTGATACCATGGGAATCTTTGGACTCAGGACAGGGCCAGGTGCAGGGCTCTCCCTCCT
CTCCCTTCGCTGTCCCCTCCCCCTGGAGGGCATGGTGTGCGGGGGTGGCACTGAGCTATGAGTCCCGGGGATGG
TGAGGAACGCCACAGACAGAGCCACCCTAGGAGTGAGTATAGTGCTGGTGACTGTGTTTCATAGCCCCAGTCCAG
GGCTGTCTAAGAAATAAAGATCATCAGACTCCAAAAAAAAAAAAAAAAA

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FIGURE 4347

MATVMAATAAERAVLEEEFRWLLHDEVHAVLKQLQDILKEASLRFTLPGSGTEGPAKQENFILGSCGTDQVKGVL
TLQGDALSQADVNLKMPRNNQLLHFAFREDKQWKLOQIQDARNHVSQAIYLLTSRDQSYQFKTGAEVLKLMDAVM
LQLTRARNRLTTPATLTLPEIAASGLTRMFAPALPSDLLVNVYINLNKLCLTVYQLHALQPNSTKNFRPAGGAVL
HSPGAMFEWGSQRLEVSHVHKVECVIPWLNDALVYFTVSLQLCQQLKDKISVFSSYWSYRPF

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FIGURE 4348

GT CATGGCGCCCGAGGAGAACGCGGGGACCGAACTCTTGCTGCAGAGTTTCGAGCGCCGCTTCCTGGCGGCACGC
ACACTGCGCTCCTTCCCTGGCAGAGCTTAGAAGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGAT
ATTTTGCACAAGACTGTGAAGCATCCTGTGTGTGTGAAGCACC CGCTCCGTCAAATATGCCCGGTGCTTTCTC
TCAGAACTCATCAAAAAGCAGGAGCTGTCCACACAGAGCCTTTGGACGAGCTGTATGAAGCGCTGGCGGAGACC
CTGATGGCCAAGGAGTCCACCCAGGGCCACCGGAGCTATTTGCTGCCCTCGGGAGGCTCGGTACACTCTCCGAG
AGCACGGCCATCATCTCCTACGGTACCACAGGCCTGGTCACATGGGACGCCGCCCTCTACCTTGCAAGATGGGCC
ATCGAGAACCCGGCAGTCTTCACTAACAGGACTGTCTAGAGCTTGGCAGTGGTGCTGGCCTCACAGGCCTGGCC
ATCTGCAAGATGTGCCGCCCGGGGCATACATCTTCAGCGACTGTACAGCCGGGTCCTTGAGCAGCTCCGAGGG
AATGTCTTCTCAATGGCCTCTCATTAGAGGCAGACATCACTGCCAAGTTAGACAGCCCCAGGGTGACAGTGGCC
CAGCTGGACTGGGACGTCCGACGGTCCATCAGCTCTCTGCCTTCCAGCCAGATGTTGTCAATGCAGCAGATGTG
CTGTATTGCCCAGAAGCCATCATGTGCTGGTCCGGGTCTGCGGAGGCTGGCTGCCTGCCGGGAGCACCAGCGG
GCTCCTGAGGTCTACGTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTACACCAGGCTAGGCCGG
GCCGGGATCAGATGGGAAGTGGAACTCGTCATGAGCAGAACTGTTTCCCTACGAAGAGCACTTGGAGATGGCA
ATGCTGAATCTCACCTGTAGGACTCACACAGACTCCAACGGGATTGTGAGAATCAAGTCACTCTCATGGGAAG
AATTTTTATATGGGAAAGCGGATAAACTTTTATTGGACTGGAATGTTTGGAGAATGTTAATTTCCAAATCAGGA
ACCACAACTGCCCTCTAATAAGACATCGGCTATCTAAGCGTGTGGGTGCCCCCTTTCTGCCAGCAGTTCTGTT
CTTAAGAAAATCACCATAAATCAGACATGAAAATCTGGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAC
GTGTGTATCAAGTATGATGTTCCCCAACGTGGACACACTCAGTTCCTCACAAGCCAAGCCCACTGCAGCTGCC
ACATCCCTGGGCTTACGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAATGTTAGGAACACGGCAGAAAGG
GGACACCTGGAGACCAAACGCAGGATGAGGAGTTCTGCAGAGGTACAGGGAAGTACAGAACAGTAATACGCTA
GCAGGGGCATGGGGCGTGAAGAACAGAAGAAGAGAGGAAGCGTTTCCAAGCCTCCAGAGAAGAAATCAAGGCCAA
CCAAAGCTTCCCGGGTCACAGAACCAATTCTTTTACCAGGCAGTACCACTGCTGTCAATTCAGCTTCTGGCCACT
GGGAGGTGCTGCTCGAAAGGGTTTGCCTGAGACTCCAAGAAGAAGCTGCGGGAAGGACAGCAGGGGTCTGGGG
TTTTAGCCTCTGGCCAGGAGTTATGTGTCCATAACCAAAGGGAGCACAGTCTGCACCCAGCTCTCATCCCATCG
GAGCTGCTGCGACTCCCGCAGGTTCTTCCGGAAGTGGTTTAGCTTGCCCGCAGGATCAGGAAAGTTTGAGAAAAG
CATCTGCAAAAAAATAAAGAGCAGAGCTTACCTC

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FIGURE 4349

MAPEENAGTELLLOSFERRFLAARTLRSFPWQSLEAKLRDSSDSELLRDILHKTVPKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEALAETLMAKESTQGHRSYLLPSGGSVTLSESTAIISYGTTLGLVTWDAALYLAEWAI
ENPAVFTNRTVLELGSGAGLTGLAICKMCRPRAYIFSDCHSRVLEQLRGNVLLNGLSLEADITAKLDSPRVTVAQ
LDWDVATVHQLSAFQPDVVIAADVLYCPEAIMSLVGVLRRLAACREHQRAPEVYVAFTVRNPETCQLFTTELGRA
GIRWEVEPRHEQKLFPEEHLEAMLNLT

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FIGURE 4350

GGCACGAGGGAGAGATCGTCCAGGAGGCGGTGTTGATGCGGCAAAGGGCAACAGGAAGGGCATTAGGA~~CTT~~GAAA
TCGGAGACGCACGCAGGGGAGGGAGTCACTGTTCGGAACCTGGTAGGCCCTGGGAGAACTCCGGCTTTTCGTCTGC
GTGAGCTGGAGAAGAGCCGAAGGTTTTCTGCGCACAGCACGGACCTGCGTGCCCTCAGCTTTAAGGAAATCACCGTG
GCGGCCGCTGTGAACGCAGAGAAGGGCGCGAGCGTGGGAGCAGGAACCCAAGCGGTGGGAAACGGTGGGGCTTT
CTGAGTGTATTGGAAAGTAGAGCCCACAGATCTGCTGCAGACCAGAAAGGGGCGCGAGAAAGAGCGGACAGAGGC
AGACGCCGGGGCTGGCGGCGATGGAGCAGCAGTCGGAGGACGCGGAAGGCCCTGCGAGAGTCGCCCCGGGCCAGC
GCGGGCCTTCGGGTCCACCTTGCGGGTGATGTTGTGCACGTAGGGGACAGTGTTCAGGCGAAGCGGTGGCAGC
GTTGTCCCTCCTCCACGATCAGCCCCGTTCCCGCAGCCGGGGCAGAACAGCAGCATGGTCTCGAACTCCGCAGGCT
CCAAC~~TCCCGGCAGCT~~CCCCACTGCCGCTCAGCGCCGATGCGCCGCCCGCCTCGAGCTCACATTGGTCCTGGCAGC
CTTCCCGCCACACCAACCAACCAATAGACAGGGCGATTCTGCGCTCCCGGCCCTGCTGCAGGCTGTCTCGCACTT-
GTCATTGGTCACTGCAGCCGCCACCCCCCGCGCGCCAGTGGCTGGGCGGCCCTCGCTGGGGCGGGCCGCGAG
TTCTTGCGCGTGCGCGCTTGCCCTCCCTAGTGCGGGCTGGCAGTGCGGGCAGAGCCCGGTGAGAGGGGCGGGCC
TGGAGGAGACGGAGGCCGCGGGTGGGCCCGAGGCGCAAGAGGAAGATGAGGACGAAGAAGAGGCGCTGCCGCACT
CCGAGGCC~~ATGG~~ACGTGTTCCAGGAGGGTCTGGCTATGGTGGTGCAGGACCCGCTGCTCTGCGATCTGCCGATCC
AGGTTACTCTGGAAGAAGTCAACTCCCAAATAGCCCTAGAATACGGCCAGGCAATGACGGTCCGAGTGTGCAAGA
TGGATGGAGAAGTAATGCCCGTGGTTGTAGTGCAAGTGCACAGTCCTGGACCTGAAGAAGGCCATCCAGAGAT
ACGTGCAGCTCAAGCAGGAGCGTGAAGGGGGCATTACGCACATCAGCTGGTCCTACGTGTGGAGGACGTACCATC
TGACCTCTGCAGGAGAGAACTCACGGAAGACAGAAAGAAGCTCCGAGACTACGGCATCCGGAATCGAGACGAGG
TTTCCTTCATCAAAAAGCTGAGGCAAAAGT~~GAG~~CCTCCAGACAGGACAACCCCTCTTCATCACTGGTGGCTGAGCT
TTTCCCAGCAGGAATGGGTCTCGAATCATCGTGCCTCTTTCACAGAAAGGACGTTGTGGTGGCCTCACCC~~C~~AG
GCATGCCCAACAGTAACTGTCAGCATAAACCTGGGGGCCCTCAGGACTAGGACAGGGGTGAGCCAGTGCTCCCTCC
TTTCATGTACTTGGCCTGAGACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGG
CCCACTGTATAAAATAAACCTGTTTGCTTCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4351

MDVFQEGLAMVVQDPLLCDLP IQVTLEEVSQIALEYGQAMTVRVCKMDGEVMPVVVVQSATVLDLKKAIQRYVQ
LKQEREGGIQHISWSYVWR TYHLTSAGEKLTEDRKKLRDYGIRNRDEV SFIKKLRQK

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FIGURE 4352

CCTGGGCCCCCATGCCGTGCAGCTCGCACATATGTGGGGCAGAGCAGCCACCCTGCCCCCAGCAGCAGCCGTCCA
TCGTGAGACGTGATCATTTCCTGAGGCCTCGAGTGTGTGAGGGTGTGTTGTGCCTCATAACAACCCACAGGATGGT
CACCCCCGCTTTGCAGATGAAGAAACCAAGCAGTTTGGCCGACGGATGGGGCAAAGAAGCAGCGACCAGCTAG
AGCAGGGCAGCCACACAGCTCGTCCGACGCAGCCAGGCACCTGCAGAGCAGCCACACAGCTCGTCCGATGCAGC
CCAGGCACCTTGCCCCAGGGAGCGCTGCTTGGGACCGCCACCCTCCGGGGCCATACCGCAGCATCTATTCTC
AAGCCCAAAGGGCCACCTTACCCGACTGGGGTTGGAGTTCTTCGACCAGCCGGCAGTCCCCCTGGCCCGGGCATT
TCTGGGACAGGTCCTAGTCCGGCGACTTCCTAATGGCACAGAACTCCGAGGCCGCATCGTGGAGACCGAGGCATA
CCTGGGGCCAGAGGATGAAGCCGCCCCTCAAGGGGTGGCCGGCAGACCCCCGCAACCGAGGCATGTTTCATGAA
GCCGGGGACCTGTACGTGTACATCATTTACGGCATGTACTTCTGCATGAACATCTCCAGCCAGGGGGACGGGGC
TTGCGTCTTGCTGCGAGCACTGGAGCCCCTGGAAGGTCTGGAGACCATGCGTCAGCTTCGCAGCACCTCCGGAA
AGGCACCGCCAGCCGTGTCCTCAAGGACCGCGAGCTCTGCAGTGGCCCCCTCCAAGCTGTGCCAGGCCCTGGCCAT
CAACAAGAGCTTTGACCAGAGGGACCTGGCACAGGATGAAGCTGTATGGCTGGAGCGTGGTCCCCCTGGAGCCCAG
TGAGCCGGCTGTAGTGGCAGCAGCCGGGTGGGCGTCGGCCATGCAGGGGAGTGGGGCCGAAACCCCTCCGCTT
CTATGTCCGGGGCAGCCCCTGGGTGAGTGTGGTCGACAGAGTGGCTGAGCAGGACACACAGGCCTGAGCAAAGGG
CCTGCCAGACAAGATTTTTTAATTGTTTAAAAACCGAATAAATGTTTTATTCTAG

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FIGURE 4353

TTCCCATCCGCACCAGCAAGAGGGGCCCTGTGCCCAAACGCGAACCGTACGGCTCCAGACAGCACCGCGGAAC
TCGGTGGCTTCCAGAAGGCCCGCGCCTGCGCATTCGCTGCGCTGCGCCTGCGCCTGCGCCGTCTCTCCC
GGCCGCCGCTTAGCACCTCCTCCGGACGGTGTGCGCGAAGTCTCGCGAGCCCGAGCGTGGCAGCTGGGCCCCC
TCCGCTCCGGCTCCGTCTCTCTGCCCCCTCCGCCCCGGCCCCGCCCCACGGCGGGATGCGGGACAACAC
CAGCCCCATCAGCGTGATTCTGGTGAGCTCGGGGAGCAGGGGCAATAAGCTGCTGTTTCAAGTACCCCTTCCAGAG
AAGCCAGGAGCACCCGGCGTCCAGACAAGTAAGCCGCTAGCAGATACGCTGCCAGCAACACGGGCGACCATGC
TGATGAGCAGGACGGCGATTCCAGGTTTTTTCAGATGTTATTCTGGCAACAATTTTGGCAACCAAGTCTGAAATGTG
TGGCCAAAAATTTGAAGTGAAGATTGATAATGTGCGATTGTTGGGACCCCAACACTGCTACAGCATGCTCTGGG
GCAGATCTCCAAAACAGATCCTTCCCCGAAGAGGGAAGCACCTACTATGATTCTTTTAAATGTGGTGTGTCAGT
GAGGGCCAAACGAGACCCGTCAGTGATAAACTGTCTGCATAACCTGTCCCGTCTGATCGCCACCGTGTGTCAGCA
CGAGGAGCGCGCTGCCAGTACCTCACCCGGGAGGCCAAGCTGATCCTGGCGCTCCAGGATGAGGTGTCCGCCAT
GGCTGATGGAATGAAGGTCTCAGTCCCCATTCCATCACATCTGCCAAGTGCAAGCTGGCCAGGGACCTCAA
GGAAGCTTATGACAGCCTGTGCACGTGCGGGCGTAGTTCGGCTTCACATCAACAGCTGGCTGGAGGTGAGCTTCTG
CCTGCCCCACAAGATCCACTATGCGGCCTCCAGTCTGATCCCCCAGAGGCCATCGAACGGAGCCTGAAAGCCAT
CCGCCCCCTACCATGCCCTGCTGCTGCTCAGTGATGAGAAGTCTTGCTGGGTGAGCTTCTATTGACTGCTCCCC
TGCCCTAGTGCGGGTGATCAAGACCACATCTGCTGTGAAGAACCTGCAGCAGCTAGCCCAAGATGCGGACCTGGC
CTTGCTGCAGGTTTTTCCAGCTTGAGCTCATCTGGTGTACTGGGGCAAGGCCATCATCATCTACCCGCTGTGTGA
GAACAACGTCTACATGCTGTCTCCCAATGCCAGCGTATGTCTGTACTCCCGCTGGCCGAGCAGTTCTCCACCA
GTTCCCATCTCATGACCTGCCGTCCGTTCTTGCCAAGTTCTCTTGCCGGTCTCCTTGTGCAATTTAGGAATCC
CCTGGCCCCCGCTGTGTCAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGGCTTCTCATCCA
GCTGCACACCTATGTCTGCCTGATGGCTCACCCAGCGAGGAGAGCCCCGTCCGCGAGAGGACGACGTCCCTT
CACTGCCCCGGGTGCGCGGTGCGAGCCTCAGCACGCCCAACGCCCTCAGCTTTGGCTCCCCAACCCAGCAGCGATGA
CATGACCTCACCCAGCCCCAGCATGGACAACCTCCAGCGCAGAGCTACTTCCAGCGGGGACTCGCCACTGAACCA
GAGGATGACGGAGAACCTGCTGGCCAGCTGTGCGAGCATGAACGCGCAGCCATCCTCAGTGTACCCGCAGCCAG
AACCCTGAGGACCTCCGCATGTTTGCCAGGCTCCTTCACTACTTCCGCGGCCGCCACCCTGGAGGAGATTATG
TACAACGAGAACACGCGCGCTCCAGCTGCTCATGCTGTTTGACAAGTCCGCGAGCGTGTGGTGGTGACCACC
CACGAGGACCTGTCAATTGCCGTCTTCCAGGCTGTCTCCCTGAGCCAGGCGGAGGGCGGAAGGCTGCTGGGG
TGCGCAGGTGGGCGCTCGCGTCTCCCCACCCAGGGCTCCCCCGTGTGAGGCTGAGCCCTTTGGCCCTGAGG
CCTGGCATTGGGTGGATGCGGGCTGGCCGTGGCCAGTGAAGCCTGCAGAGCCCCGCTGTCTTGGCCCTGGTG
TTCCGCTGTGGGGCTGCTGCCCTCTGTGTCTCTACGCTTCCCTCCAGTCTCTGCGCACGCGTAGGCATCTCCAC
GCTGGAGGGGGGCTGCCAGGACTCCTGTCTCTGGGTGAGGCGGCATCCTTCAAGGCCATGTGGGCTGTGCGTT
TCTCAGACCCTCCTTCTGTCCCTACACCTGCTCCTTGGACCCCCAGTCTGTGGCCACCCTGAAGAATGTGCAGA
AACACTTGTGTGGCCTGTCCCTGTCTCTGACAGCCTTCTATTTGTGAAGTGCCCTGTGGCCCCCTCCCCAGCA
CCTCTGTCTGCCATGCGCTTCTTCTCCAGGCTACCCTGAGCCTTCTTGGCCCCAGTCTTACCACAGTCCACA
GAAGCCGCAAACAGGCTCATAGCCAAGCTGTGACCTGGTCTGACCATCTGGGGCAGAGGGCTGGGCTGGCCC
TGCTAGGCTGGAGAAGCCCTGTACCTGTGCACATCTTGCTGGTGGAGGCATGGCCCACTGTGCAGGACCCACC
CTCGGGGGCTTTTCGGCTCCACACTGATGATTCTCCCGAGCATCCACACCGGGCTGGCGCTACGTACTCAGGCC
CCGAGCTCTCGTGTCTTGGAGGAAGAGCTAGCTCCAGACATGGGTTGATCACCTAGAGGAGCTCTGGCTAAGGCA
CAGTTTCTAGAAATAAAACATTTATTTCGGTTTGGAAAGGCCCTTGGATTCTTGGCTGGGGACAATGATGACCT
GGACCTGGCCAGAAGAGCCCTGGCCCTCCAGCAAGGCAGCACCTGCTCTGATGCACCTGTGCACCCCTGGCCCT
CCCAGCCACCTGGGAGTCCGAAGCTTAGCCTGGAGGTGGCCAAGCCAGTCCCTACTCTTGGGTGCGGCCACGTG
AGGCTCCGCATCAGCAGCCAGGGGCGAGCACTAGTGGACAAAGCCAGCAAATGCGGCGTTCCTGTGAGCAGATAC
CCTCAACCAGCCAGCTGTCAAAAGTATTTCAAGATAAAATCCAGGCCAAGC

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FIGURE 4354

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACCATGTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGCGGAGGCCCTGGAGAGGATGTTCTGTCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTAAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCCACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGTTAAGCTGGAGCCTCGGTAGCCGTTCTCCTGCCCGCTGGGCCTCCCAACGGGCCCTCCTCCC
CTCCTTGACCGGCCCTTCTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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FIGURE 4355

MVLSPADKTNVKAAWGKVGAGHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVDD
DMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

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FIGURE 4356

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACCATGGTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGGGAGGCCCTGGAGAGGATGTTCTGTCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTTAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCAACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGTTAAGCTGGAGCCTCGGTGGCCATGCTTCTTGCCCCTTGGGCCTCCCCCAGCCCCCTCCTCCC
CTTCCTGCACCCGTACCCCGTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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FIGURE 4357

MVLSPADKTNVKAAWGKVGAGHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVDDMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

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FIGURE 4358

CCGACGCGACCATCGTTTTGTCGACGCCGCTGCCACCGCCTGCCTGAGAGAAGTCGTCGCGGCCGACCCCGTCGCC
TCCGCCGGCTACCATGTCGCCCCAGGCGCAGATGCGGGCCCTGCTGGACCAGCTCATGGGCACGGCTCGGGACGG
AGACGAAACCAGACAGAGGGTCAAGTTTACAGATGACCGTGTCTGCAAGAGTCACCTTCTGGACTGCTGCCCCCA
TGACATCCTGGCTGGGACGCGCATGGATTTAGGAGAATGTACCAAAATCCACGACTTGGCCCTCCGAGCAGATTA
TGAGATTGCAAGTAAAGAAAGAGACCTGTTTTTTGAATTAGATGCAATGGATCACTTGGAGTCCTTTATTGCTGA
ATGTGATCGGAGAACTGAGCTCGCCAAGAAGCGGCTGGCAGAAACACAGGAGGAAATCAGTGCGGAAGTTTCTGC
AAAGGCAGAAAAAGTACATGAGTTAAATGAAGAAATAGGAAAATCCTTGCTAAAGCCGAACAGCTAGGGGCTGA
AGGTAATGTGGATGAATCCCAGAAGATTCTTATGGAAGTGAAAAAGTTTCGTGCGAAGAAAAAGAAGCTGAGGA
AGAATACAGAAATTCCATGCCTGCATCCAGTTTTTCAGCAGCAAAAGCTGCGTGTCTGCGAGGTCTGTTTCAGCCTA
CCTTGCTCTCCATGACAATGACCGTCGCTGGCAGACCACTTCGGTGGCAAGTTACACTTGGGGTTTCATTAGAT
CCGAGAGAAGCTTGATCAGTTGAGGAAAATGTGCTGAAAAGCAGGAGAAGAGAAATCAGGATCGCTTGAGGAG
GAGAGAGGAGAGGGAACGGGAGGAGCGTCTGAGCAGGAGGTCGGGATCAAGAACCAGAGATCGCAGGAGGTACG
CTCCCGGGATCGGCGTCGGAGGCGGTCAAGATCTACCTCCCGAGAGCGACGGAAATTGTCCCGGTCCCGGTCCCG
AGATAGACATCGGCGCCACCGCAGCCGTTCCCGGAGCCACAGCCGGGGACATCGTCGGGCTTCCCGGGACCGAAG
TGCGAAATACAAGTAACTACTCTGACTCCTTCGGTAGCTGCAACCAGGAGTGAGCCCTTCTCTGTGTTCCAGGG
TCTGCTGAGGGCCGTGTCTGGTGGGGATGGGGCTGGGCTCACCCCTCAGGAGTAGGGCTGGGGAGTCGTGAACGGG
ACTCAGGTGTGGGAAGAGGCGAGAGGGCTGTGGAGGAGCTCGCACGGCGCCAGGTGATGGGTGCACAGGCACTG
TCCCTGCCTGCGTCTCTGGGGCTGTGCACTGTTGCGTCCATGCTCAGAGTGGCTGAGACTTGTGTCCTGACCAG
GCCCTGCTTACCTCTGTTTTGGTTTTGTTTTTGATATTTTTTTTCCATTGTGTTTTTACGTAGTGTATGTTT
TGTGCATATAGTGTGTATTCTCCTTTGCACTGTTTATGTTACAGTGAAGGCTCTCCTTATTAATAATCTTCGCA
AAGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4359

MSAQAQMRALLDQLMGTARDGDETRQVRKFTDDRVCCKSHLLDCCPHDILAGTRMDLGECKIHDLLALRADYEIAS
KERDLFFELDAMDHLESFIAECDRRTELAKKRLAETQEEISAEVSAKAKEVHELNEEIGKLLAKAEQLGAEGNVD
ESQKILMEVEKVRAKKKEAEEYRNSMPASSFQQQKLRVCEVCSAYLGLHDNDRRLADHFGGKLHLGFIQIREKL
DQLRKTVAEKQEKRNQDRLRRREEREREERLSRRSGSRTDRRRRSRSDRRRRRSRSTSRERRKLSRSRSDRHR
RHRSRSRSHSRGHRASRDRSAKYK

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FIGURE 4360

AGCGGCGAGGGCTGGATCCTGGGCCAAATATATGCCAACACGACAAGCTCTCCAAGAGGCTGAAGAAAGTGTGG
AAGCCACAGCTGTTTGAGCGAGAGTTCTACAGTGAGATCCTGGACAAGAAGTTCACAGTGACTGTGA~~CC~~ATGCGG
ACCCITGGACCTCATCGATGAGGCTTACGGGCTCGACTTTTACATCCTCAAGACCCCGAAGGAGGACCTGTGCTCC
AAGTTTGGGATGGAGCTGAAGCGAGGGATGCTGCTGCGGCTTGCCCGGCAGGACCCCGAGCTGCACCCGAGGAC
CCCGAGCGGCGGGCAGCCATCTACGACAAGTACAAGGAATTTGCCATCCCAGAGGAGGAGGCAGAGTGGGTGGGC
CTCACGCTGGAGGAGGCCATTGAGAAGCAGAGACTTTTGGAGGAGAAGGACCCTGTACCCCTGTTCAAGATCTAT
GTGGCGGAGCTGATCCAGCAGCTGCAGCAGCAGGCACTGTCAGAGCCGGCGGTGGTGCAGAAGACAGCCAGTGGC
CAG~~TG~~ACCACACAGCTCCTCCATGCCTGACCAACAGGCCCAGCTTTCCTGCCAGGCCCTTTGCACTGAGGACAC
AGATCCCGGGGAGCTGTGAGGGCCACCGGTGGGCAGTGGGTGGATCCTGGTTTCGTGTGCTGCCCATGCACCTTC
CAGCCCGGGGCCAGCTTGGCAGGGATCCCCAGGAGGCCTGGGCCGCCAGAGGCTCCTCTCAGGCTGGGCCCCGA
CGTTTGCGGCAGTGTTTCCTTGTCCCGTGGGGCCGGGAGCGAGTAAAGTCTGGGCCAGGC

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FIGURE 4361

MRTLDEAYGLDFYILKTPKEDLCSKFGMELKRGMLRLARQDPQLHPEDPERRAAIYDKYKEFAIPEEEAEW
VGLTLEEAIKQRLLEEKDPVPLFKIYVAELIQQLQQQALSEPAVVQKTASGQ

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FIGURE 4362A

GCACCGCGGCTGAGGAGCGGGAGGCCGTCCGGGCAGCGCGGCCGGCGGCGAGAGGGGCCCCGCCGCTCTCCGGAG
GCAGAAGTTGTGGATCGGCCGGCGGGGGCGAGCGGGCCCCGGGGCCGGGGCCGCGCTGCCCGGGCCGCGAGGACG
AGGCGGCGCGCCCGGGCTGTGGAGGCAGCAGCCCAGACGCGGCACAGAGAGGGCCTGGGAGCTTGCTGCAGCTTC
AGACAGGGAGCCAGGATGGGAACCACGGACTGACCTGACCTGCGTCTCTCGGGGCCACTGCACTGGGTGATTACG
TGTGCCCAGGCCCTGAGGTGGGCGGACCTGGGAGTGGCAGCCACACCCACTCGCCCGGGTCTATGGCCACGGTC
GGAGAGTGGTCTGTGTGCGCTGCACCTTCCTGAACCCGGCCGGCCAGCGCCAGTGCTCCATCTGCGAGGCTCCC
CGGCACAAGCCCCGACCTCAACCACATCCTGCGGCTCAGCGTGGAGGAGCAGAAATGGCCCTGCGCCCGCTGCACC
TTCCGCAACTTCCTGGGCAAGGAGGCCCTGCGAGGTGTGCGGCTTCACCCCGAGCCTGCGCCTGGGGCTGCCTTC
CTGCCAGTCTCAACGGGGTCTCCCCAAGCCACCCGCCATCCTGGGGGAGCCCAAGGGCAGCTGCCAGGAGGAA
GCAGGTCCAGTGAGGACTGCGGGGCTGGTGGCCACGGAGCCCGCCAGGGGGCAGTGCGAGGACAAGGACGAGGAG
GAGAAGGAGGAGCAGGAGGAGGAGGAGGAGGAGCGGCGGAGCCAGAGGGGGCTGGGCGTGTCCGCGTTGCACGCTG
CACAAACACGCCCCGTGGCCAGCTCCTGCTCCGTCTGCGGGGGCCACGCAGGCTCTCGCTGCCACGGATCCCTCCT
GAGGCCCTGGTGGTCCCCGAAGTGGTGGCCCCGGCCGGCTTCACGTCGTGCTGCTGCCGCGCTCCACCTGGCCCTC
CCCGGGGAAGGTGCCGAGGCCAACCCCCAGCCACCAGCCAGGGGCCAGCTGCCGAACCAGAGCCGCCAGGGTC
CCGCCCTTCAGCCCCCTCTCGTCCACCTGCAGAACACCCCGTGC CGCGCAGCCGACGCGAGGTTCCCCCCCAG
CTGCAGCCACCGGTGCTGAGGCTGCCCCAGCGCTACCCCTCTGCCGGCTGCAGGGGAGCCCCCAGGGCTCGGGC
TGGGCTGGGGCTCCCGCTAGCAGAGTTGCTGTCTGGCAAGCGGCTGAGTGTGCTGGAGGAAGAGGCCACGGAG
GGTGGCACCAGCCGCTAGAGGCCGGCAGCTCCACCTCGGGCAGTGACATCATTGACCTGGCCGGAGACACCGTG
CGTTACACGCCCCCAGCCCCCTCAGCCCCGACTTCACCACCTGGTCAATGTGCCAAGTGACGCTCAGAAACCCC
ACAGTGGCCCCCAGGTGCTCGGCCTGCGGCTGCTCCAACTGCACGGCTTCAGGAGCATGGCGAGCCCCCACC
CACTGCCCCGACTGTGGGGCCGACAAGCCCAGCCCCCTGCGGCAGAAGCTGCGGACGGGTGTCTCGGCCAGAAG
GCCGCCCGCTCTGCCGAGCGCCCGGCCAGTGGGCTGCCCTGCTGTACCCTGCTCAACGCACTGCGGGCC
AAGCACTGCGCCGCTGCCACACGCTCAGCTCCTGGTGGCCAGCGCGGGGGCCGCGCCCTGAGGCGCAGG
GAGAGCATGCACGTGGAGCAGCGCGGCAGACAGACGAGGGCGAGGCCAAGGCACTCTGGGAGAACATCGTGGCC
TTCTGCCGGGAGAACATGTGAGCTTCGTGGATGACAGCTTCCTCCCGGGCCCGAGTCTGTGCGGCTTCCCCGCG
GGTGACAGCGTGACGAGCGTGTGAGGCAGTGGCTGCGACCCAGGAGATCAACTGCTCCGTCTTCAGGGACCAC
AGGGCCACGTGGTCTGTGTTCCACACTGCGGCCCTCAGACATCCTGCAGGGGCTGCTGGGGAATGCTGGTTC
CTGAGCGCCCTGGCGGTGCTGGCGGAGCGGCCGACCTGGTGGAGCGGGTGATGGTCACGCGCAGCCTGTGTGCA
GAGGGCGCCTACCAGGTGCGGCTGTGCAAGGACGGCAGTGGAACACGGTGTGGTGGACGACATGCTGCCCTGT
GATGAGGCCGCTGCTCCTCTTCTCACAGGCGCAGCGGAAGCAGCTGTGGGTGGCCCTCATCGAGAAGGCGCTG
GCCAAGCTGCACGGCTCCTACTTTGCGCTCCAGGCGGGCCGCGCCATCGAAGGCCTGGCCACGCTCACGGCGCC
CCCTGTGAGAGCTGGCGCTGCAGCTCAGCTCCACTAACCCCCGCGAGGAGCCCGTTGACACTGACCTCATCTGG
GCCAAAATGCTGAGTTCTAAGGAGGCTGGGTTCCTCATGGGTGCTCCTGTGGCGGGGGCAACATGAAGTGGAC
GATTCGGCCTACGAGAGCCTGGGCTGCGCCCCCGGCATGCCTACTCCATCCTGGATGTCCGAGATGTCCAGGGC
ACCAGGCTTCTGCGGCTCCGAAACCCGTGGGGCCGTTTCTCCTGGAACGGCAGCTGGTCCGACGAGTGGCCACAC
TGGCCGGGGCACCTGCGTGGCGAGCTCATGCCGCACGGCAGCAGTGAGGGTGTCTTCTGGATGGAGTACGGCGAC
TTTGTCAGGTAATTCGACTCCGTGGACATCTGTAAGGTGCACTCGGACTGGCAGGAGGCGGGGTGCAGGGCTGC
TTTCCAGCTCGGCCAGCGCGCCCGTGGGGGTAACAGCGCTCACGGTGTGAGCGGGCTCGCTGGAGTTCCGG
CTCTTCCAGGAGGGCAGCAGGCGCTCGGACGCCGTGGACAGCCACCTGCTGGACCTGTGCATCCTGGTGTCCGG
GCCACGTTCCGACGCGGCGGCCACCTCAGCCTGGGCCGCTCCTGGCCACAGTAAGCGCGGGTCAAGAAGTTC
GTCAGCTGCGACGTATGCTGGAGCCTGGCGAGTACGCTGTGGTGTGCTGCGCTTCAACCACTGGGGGCCGCC
CTGCCGGGCAACCCTGCCCCCAGGCTCCAGCCCCCTGGCAGGGGTCCCGAGAGCCTCCCGAGAGCCGCCGGG
CACGTGTGGCTGTGTACAGCTCGAGGCTGGTCTATGGTGGAGCCGTGGAAGCCAGCCGACCAGCTGGCCGAC
GCCATCATCTGCTACCCAGAGAGCCGCGGAGAGCGGCAGGAGGGCCGTGAGGGCATGACCTGCTACTACCTGACA
CACGGTTGGGCGGGGCTCATCGTGGTGGTGGAGAACGACACCCCAAGGCCTACCTGCACGTGCAGTGTGACTGC
ACCGACAGCTTCAACGTGGTGTCCACACGCGGCAGCCTGCGTACCCAGGATAGCGTGCCACCCCTGCACAGGCAG
GTCCTGGTGTCTGTCCAGCTAGAGGGCAACGCCGGCTTCTCTATCACCCACCGCTGGCACATCGCAAGGCA
CCCCAGGCCTTCTCAGTGACTGGACAGCCTCCAAGGGGACCCACAGCCCCCACTCACGCCAGAGGTGCGCGGT

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FIGURE 4362B

CTGCATGGGCCCCGACCGCTGTGAACCACCATGCCTGGGGCAGGGGCTGTGCACAGACGGACCCCCACCCCCACA
CGCACTTTATGAGGGAGACCCCGACAGAGGACGCTTGAGCCAGAATCTCAGGACCCCGCCAGGGAGCTGCCAGC
CCAGGGCTCAGCTTCCCATGGGCCCCCGCCCCCTCCTTCCCTCCCTGAACCCACAGTCCGCCTGGCCAGAC
CTCCTGGCCGCCACGCAGAATACCTCGAACCAGGCGGGCTGTGAACCAGCCCCGCTCACCTGCCAGCCCCAACAC
CCGACGGGGGCCGAGGCCAGGCTGCCCCCTCCTGTGGGCTCAGGGTCTCCTGCGGGCTAGGCAGCCAGGAGCTCT
GTCCGCAAAACCAAATCTGGGTGTCAGAGGCCAAGACCCTGGGGTGGGATCAGGGACCACCCCTCACGGGGCATA
AGGTCAGTTTTCCCCCAGAGCCCGGGTCCCTGTCCCCACAGGGCAGGCGGGGTCCCTGGAGCCCTGGTGTGGAG
CGGCGAGTCCCGGGCGGTGCCTGTCTCAGAAGAAGGG

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FIGURE 4363

MATVGEWSCVRCTFLNPAGQRQCSICEAPRHKPDNLNHLRLSVVEEQKWPCARCTFRNFLGKEACEVCGFTPEPAP
GAAFLPVLNGVLPKPPAILGEPKGCQEEAGPVRTAGLVATEPARGQCEDKDEEEKEEQEEEGAAEPRGGWACP
RCTLHNTPVASSCSVCGGPRRLSLPRIPPEALVVPEVVAPAGFHVVPAAPPPGLPGEGAEANPPATSQGPAAEFE
PPRVPPFSFSSTLQNNPVPRSRREVPPQLQPPVPEAAQSPSAGCRGAPQGSWAGASRLAELLSGKRLSVLEE
EATEGGTSRVEAGSSTSGSDIIDLAGDTVRYTPASPPSPDFTTWSCAKCTLRNPTVAPRCSACGCSKLHGFQEHG
EPPTHCPDCGADKPSPCGRSCGRVSSAQKAARVLPERPGQWACPACTLLNALRAKHCAACHTPQLLVAQRRGAAP
LRRRESMHVEQRRQTDEGEAKALWENIVAFCRENNVSFVDDSFPPGPESVGFPAGDSVQQRVQRWLRPQEINCSV
FRDHRATWSVFHTLRPSDILQGLLGNCWFLSALAVLAERPDLVERVMVTRSLCAEGAYQVRLCKDGTWTTVLVDD
MLPCDEAGCLLFSQAQRKQLWVALIEKALAKLHGSYFALQAGRAIEGLATLTGAPCESLALQLSSTNPREEPVD
DLIWAKMLSSKEAGFLMGASCGGGMKVDDSAYESLGLRPRHAYSILDVRDVQGTLLRLRNPWGRFSWNGSWSD
EWPHWPGHLRGELMPHGSSEGFWMEYGDFVRYFDSVDICKVHSDWQEARVQGCFFSSASAPVGVLTALTVLERAS
LEFALFQEGSRRSDAVDSHLLDLCILVFRATFGSGGHLSLGRLLAHSAKRAVKFVSCDVMLEPGEYAVVCCAFNH
WGPPLPGTPAPQASSPSAGVPRASPEPPGHVLAVYSSRLVMVEPVEAQPTTLADAIILLTESRGERHEGREGMTC
YYLTHGWAGLIVVVENRHPKAYLHVQCDCTDSFNVVSTRGSLRTQDSVPPLHRQVLVILSQLEGNAGFSITHRLA
HRKAAQAF LSDWTASKGTHSPPLTPEVAGLHGPRPL

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FIGURE 4364

CTGGGCCGCGAGGCGCGGAGCTTGGGAGCGGAGCCCAGGCCGTGCCGCGCGGCGGCCATGAAGGGCAAGGAGGAGA
AGGAGGGCGGGCGCACGGCTGGGCGCTGGCGGCGGAAGCCCCGAGAAGAGCCCCGAGCGCGCAGGAGCTCAAGGAGC
AGGGCAATCGTCTGTTCGTGGGCGGAAAGTACCCGGAGGCGGCGGCCTGTACGGCCGCGCGATCACCCGGAACC
CGCTGGTGGCCGTGTATTACACCAACCGGGCCTTGTGTCTACCTGAAGATGCAGCAGCACGAGCAGGCCCTGGCCG
ACTGCCGGCGCGCCCTGGAGCTGGACGGGCAGTCTGTGAAGGCGCACTTCTTCCTGGGGCAGTGCCAGCTGGAGA
TGGAGAGCTATGATGAGGCCATCGCCAATCTGCAGCGAGCTTACAGCCTGGCCAAGGAGCAGCGGCTGAAC TTCG
GGGACGACATCCCCAGCGCTCTTCGAATCGCGAAGAAGAAGCGCTGGAACAGCATTGAGGAGCGGCGCATCCACC
AGGAGAGCGAGCTGCACTCCTACCTCTCCAGGCTCATTGCCGCGGAGCGTGAGAGGGAGCTGGAAGAGTGCCAGC
GAAACCACGAGGGTGATGAGGACGACAGCCACGTCCGGGCCCAGCAGGCCTGCATTGAGGCCAAGCACGACAAGT
ACATGGCGGACATGGACGAGCTTTTTTCTCAGGTGGATGAGAAGAGGAAGAAGCGAGACATCCCCGACTACCTGT
GTGGCAAGATCAGCTTTGAGCTGATGCGGGAGCCGTGCATCACGCCAGTGGCATCACCTACGACCGCAAGGACA
TCGAGGAGCACCTGCAGCGTGTGGGTCATTTTGACCCCGTGACCCGGAGCCCCCTGACCCAGGAACAGCTCATCC
CCAACTTGGCTATGAAGGAGGTTATTGACGCATTTCATCTCTGAGAATGGCTGGGTGGAGGACTACTAGGTTCCC
TGCCCTACCTGGCGTCCTGGTCCAGGGGAGCCCTGGGCAGAAGCCCCCGCCCCCTATACATAGTTTATGTTCTCTG
GCCACCCCGACCGCTTCCCCCAAGTTCTGCTGTTGGACTCTGGACTGTTTCCCCCTCTCAGCATCGCTTTTGCTGG
GCCGTGATCGTCCCCCTTTGTGGGCTGGAAAAGCAGGTGAGGGTGGGCTGGGCTGAGGCCATTGCCGCCACTATC
TGTGTAATAAAATCCGTGAGCACGA

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FIGURE 4365

MKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVAVYYTNRALCYLKMQQ
HEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEAIANLQRAYSLAKEQRLNFGDDIPSALRIAKKKRWNSI
EERRIHQESSELHSYLSRLIAAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKYMADMDELFSQVDEKRKKR
DIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQEQLIPNLAMKEVIDAFISENGWV
EDY

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FIGURE 4366

GCGGAGCTTCCAGGGTCTCTGGGTGCGCCAGCGCGGGGCGCGGGCTGGAGCCGGCGCCGGGCACGGCATCGGGG
GCCTGGACTGCACGGCCCGGCAGCAGGTTGGTCTTGGCGTGGGCGTGGGCGCGGGAGGGGGCTCGGAGCCAGGGTC
GGCTGCCCCACGGGGCTGTGCGGGGCGCGGGTCTGCGCGGACTGCGGGGAGCGAGGAGGCCCCAGCCCTAACCC
GCGGTGCGGGCAGACCTGGGTGCGGGGCTGGTAGTGCTGCAGCCCCCTCCCCGCCCCACCCTCGGGCAGAGGCA
TTCACGTGCATCCCCTGAGAGGGGAGGGTCTGTGGGGAGGATCTGTGGGGCAGGTTTGGAAACGGGCTCTTTCTCCA
GGCTTAGGTACAGGCAGGGCCCTTACAGGTACGCCGGAGCAGGCTGACTCCTTGACTCCCCAGCTGACGCCCTGGG
GACTGATCTCGGGGACTGAGGATGCAGGTGCACAGTAGGGCTGCGGACCCGGCTCGGTGGCTTCGCACCGGAGCC
CGGGTGGGGCGGTGCGGGTACCTCTGTATGCTGGGCTGGGGGCGCACCACGTGCTCACAGCACACGCACCCACGC
GTGGCTCGGCAGGCCGCCCATGGAGCCAGGCAGCGTGGAGAACCTGTCCATCGTGTACCGGAGCCGCGACTTCCT
GGTGGTCAACAAGCACTGGGACGTTTCGATTGACAGCAAGGCGTGGCGGGAGACTCTGACCTGACAGAAGCAGCT
GCGGTACCGCTTTCCCGAGCTGGCCGACCCTGACACCTGCTACGGGTTACGGTTCGTCCACCAGCTGGATTTCTC
CACCAGCGGGGCGCTGTGCGTGGCCCTAAACAAGGCAGCCGCCGCGCAGCGGTACAGGTGCTTCAAGGAGCGGGCG
CGTGACCAAGGCTTACCTGGCATTGTGTCGGGGGCACATCCAGGAGAGCCGGGTAACCATCAGCCATGCCATTGG
CAGGAACAGCACGGAGGGCCGGGGCCACACCATGTGCATCGAGGGCTCGCAGGGTTGTGAGAACCCAAAGCCAAG
CCTCACAGATCTCGTGGTTCTGGAACACGGGCTGTACGCAGGCGATCCTGTCTCAAAGTGCTGCTGAAGCCGCT
CACGGGCGCGACACACCAGCTGCGCGTGCACTGCAGTGCCCTGGGCCACCCCGTGGTGGGCGACCTGACCTACGG
AGAAGTCTCGGGCCGGGAGGACCGGCCGTTCAGAATGATGCTGCACGCTTCTACCTGCGCATCCCCACGGACAC
CGAGTGTGTGGAGGTCTGCACGCCTGACCCCTTCTGCCCCCTCCCTGGATGCTGCTGGAGCCCCACACACTGCT
GCAGTGCCTGGACCAGCTCGTGCAGGCCCTACGGGCCACCCCGACCCCTGACCCCGAGGATAGGGGCCCCAGGCC
AGGCAGCCCCCTCCGCACTCCTGCCTGGGCCCGGCCGCTCCTCCACCCCAACCAAGCCCCCTGAGACTGAGGC
ACAGCGGGGCCCCCTGCCTGCAGTGGCTGTGCGAGTGGACGCTGGAACCGGACAGCTGAGAGCCGCTGGGGCTGGGG
CAGGGGGTGTACGCTGCACAGCGGGACTCTAGGGAGATGGGCGAGCGAGCGTCTGCTCACTGGCTCTGGGGCCTC
GAGGTGCCAGGCAGCATCAGGCCCACTGGGTTGCCCCGCCAGGCCTGCGAGGAAGGGCTGAGGTGGGGCCGGCA
GGGGGCGCCAGGCAGCCGTGATCACAGGTGACGACCGCACCGCGGGCCGTGGGACTGATGCGGGATCCCGAGGGCC
TTCCTGCCCACATGCCCCGGGAGAAACCGAGGCCCTCCTCCTCCTGGAACAGCTTCCGGCTCTCAAGCGTCAC
CCCAGGGGCGTCAGTTTACGGACTCAAGGTCACCTCAGGAAGAGGCAGGGCCAGGTTTGGGATAGGCTTTGCC
TCCAGGATGGGCTGCTCCTGGGCCTGGTGAGCTACTGCCCCAACCTACCCTCTAGAGGGGCTGGGAAGGGCCGT
TCTGGGCTCACCTGGCCTGGGAGACCCATCTGGTCCCTGCGTCTCTGCCCCCTCACTGCTCTGTGCAGATCCTGT
CGCCCTCAGCTGCCCTCCTCCCGAGACCTAATGGTCCCTGCTGGGCTCGAGTCTGCAGGCCCGGCTGCGTGTGCCCT
TGGCCTCACTGTACCAAGTGGTTCCCTCTCTGCCCGGATTCTGAGCTCAGTGTGGTGTGTTGGTGACAGGGGTTGG
TCAGGGGCCATGGCCAAGGCCCTGCCACGCACGCCCATCCCTCAGATCCACTGTGAGCACCACCTGCTGCAGTC
TCTTGGGCCCCTGCTGGCAGCTCTGCCACGTACCGCCTGCCTGGCTCCACACAGCCATGCATTGTCACTCTGC
CTCCGGGACCCAGCTTGGGAGCTGTGGGTCTGCCAGGTCCCACCTCCTCTGTCCCCATGCCAACCTGGGCT
CCTGGCTACAGCAGGGCTCCAGGGACTCCAAATAAATGTTCACTGACTGGCTCCAAGGATGAC

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FIGURE 4367

MEPGSVENLSIVYRSRDFLVVNKHWDVRIDSKAWRETLTLQQLRYRFPELADPDTCYGFRFCHQLDFSTSGALC
VALNKAAGSAYRCFKERRVTKAYLALLRGHIQESRTISHAIGRNSTEGRAHTMCIEGSQGCENPKPSLTDLVV
LEHGLYAGDPVSKVLLKPLTGRTHQLRVHCSALGHPVVGDLTYGEVSGREDRPFMRMLHAFYLRIPDTECEVC
TPDPFLPSLDACWSPHTLLQSLDQLVQALRATPDPPEDRGPRPGSPSALLFGPGRPPPPPTKPPETEAQRGPCCL
QWLSEWTLEPDS

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FIGURE 4368

CGGGGAGGTTTCGGAGCGGGAGCTCGGGCTCGCGGACGGTATGAGGACTACGAGCAGGAGCTGTGCGGCGTTCGAG
GATGATTTCACAAACAGTTTCGCGGCCGAGCTGGAGGTGCTGGCAGAGCTGGAAGGGGCGTTCGACTCCGTCGCCC
TCCGGGGTCCCCCTGTTACCCGCGGGCCGACCCCCGCGGACGTTTCGAGGAGGCCCTTGCCAGAGGGGACGCGGCC
TCCAGTCCCGCCCCAGCCGCATCTGTGGGCAGCAGCCAGGGCGGCGCCAGGAAGAGGCAGGTGGACGCCGACCTG
CAGCCGCGCCGGGTCCCTGCCCCACGGTAGGTTGGCGGCATTGCCCCAGGGCCTCCGGAGTGGGCGCGAGGCTGAG
GAGGCCCTCTGGTTCCCTGCATGTGTCTCCCCAGCCCCCAGGATCAAACGGCCTAGGCTGCAGGTGGTCAAGAGG
CTGAACTTCAGATCGGAGGAGATGGAGGAGCCGCCCCCTCCCGACTCTCGCCGACGGACATCACCCGCGCCCG
AGCCCTGAGGACCTCGCAGAGCTTTGGGGCCACGGAGTCTCAGAAGCTGTGCGGACGTGGGTCTCACACGGGCC
TCACCAGCTGCCCCGAATCCCGTCTGAGGCGGCCCCCATCTTGAGGACTACGTCCACGTGACATCCACGGAG
GGCGTCCGGGCTTATCTGGTGCTGCGTGCTGACCCCATGGCCCCGGGGTGCAGGGCTCTCTCCTCCACGTCCCA
TGGCGAGGCGGTGGCCAGCTGGACCTGCTGGGTGTGTCTTAGCCTCCCTGAAGAAGCAGGTTCGACGCGCAGCGG
CGGGAGCGGCTGCTTCAGGAGGCCCAGAAGCTTTCAGACACCTGCACAGTCTCAGGTCCGGGGAGGAGGCA
GCCCAGCCCTTGGGGGCCCCCTGAGGAGGAGCCGACTGACGGTCAAGACGCTCCAGTCACTGCCTCTGGGTGGAT
GAGTTTGACCCCGCCACTACACGGAGCTGCTCAGTGATGACTTACCAACCGCTGCCTGCTCAAGTGGCTGAAG
TTGTGGGACCTGGTGGTGTGTTGGCCACGAGAGCCCTTCCCGGAAGCCAGGCCCAGTGTGAGAGGCTGGGCTG
AGCAAGGAGGCCACAGCCCCAGGCAAGTGAAGAGCCACGAACAGGTGCTGGAGGAGATGCTGAGGCTGGGCTG
GACCCGAGCCAGCGACCGAAGCAGAAGGTGGCACTGCTCTGTGGGCCCCGGGGCTGGGGAAGACCACCTGGCA
CACGTGATTGCGCGTCACGCGGGGTACTCTGTGGTGGAGATGAACGCCAGTGACGACCGTAGCCCGAGGTCTTC
CGCACACGCATCGAGGCGGCCACCCAGATGGAGTCCGTGCTGGGTGCTGGCGGGAAGCCCAACTGCCTGGTCAATC
GATGAGATCGACGGGGCCCCCGTGGCCGCCATCAACGTCTCTGAGCATCCTGAACCGCAAGGGGCCACAGGAG
GTGGGGCCACAGGGCCCGGCTGTGCCTTCGGGAGGCGGCGGACGGCGCCGGGCGAGGGGGGCTCCTCATGAGG
CCCATTATCTGCATTGTGAATGACCACTTCGCACCGTCCCTGCGGCAGCTGAAGCAGCAGGCCTTCCTGCTCCAC
TTCCCGCCGACTCTGCCCTCGAGGCTGGTGCAGCGGCTCCAGGAGGTCTCCCTGCGGCAGGGCATGAGGGCCGAC
CCAGGGGTGCTGGCCGCCCTCTGTGAGAAAAGTGAACATGACATCCGGGCTGCTCAACACCTGCACTTCTG
TACAGCCGGGGCCAGCGGGAGCTGAGCGTGGGGGACGTGCAGGCCACACGCGTGGGCCTCAAGGACCAGCGCAGA
GGGCTCTTCTCGGTGTGGCAGGAGTCTTCCAGTGCCTCGAGCCCAGAGGCGCCGTGTGGGCCAGGACCCCGCC
CTGCCTGCTGACACACTCTGCTGGGTGACGGGGACGCGGCTCCCTCACCTCCGCTCACAGCGATTCTACCGT
GTCTGCTATGCGCTGCCTCTGCGGGCGAGCACGAGGTGGTCCAGGGCTTGTTTGACAACCTTCTGCGTCTG
CGGCTGCGAGACTCCAGCCTGGGTGCTGTGTGTGGCCCTCGACTGGCTGGCCTTCGATGACCTGCTGGCGGGG
GCTGCTCATCACAGCCAGAGCTTCCAGCTGCTGCGCTACCCACCTTCTGCGCGTGGCCTTCCATGTGCTGTTT
GCTTCCAGCCACACACCCAGGATCACCTTCCCCAGCAGCCAGCAGGAGGCCCAGAACCGGATGAGCCAGATGAGG
AACCTGATCCAGACGCTGGTGTCCGGCATCGCGCCAGCCACGCGCAGCCGGGCCACGCCCCAGGCCCTGCTCCTC
GATGCCCTCTGCCTGCTCCTGGACATCTTTCACCCAGCTCCGCCCCGTGAGCACACAGCTGTACAGCACCCGT
GAAAAGCAACAGCTGGCCAGCCTGGTGGGCACGATGCTCGCTTACAGCCTGACCTACCGCCAGGAGCGCACGCCC
GATGGCCAGTACATCTACAGGCTGGAGCCGAACGTGGAGGAAGTCTGCCGCTTCCCTGAGCTGCCTGCCGCAAG
CCCCTCACCTACCAGACGAAGCAGCTCATCGCCCGGAGATCGAGGTGGAGAAGATGCGGCGGGCGGAGGCTTCT
GCCCCGGGTAGAGAACAGCCCCAGGTGGATGGGAGCCCCCAGGGCTCGAGGGTCTGCTGGGGGGCATTGGGGAG
AAAGGGGTGACCGACCTGCCCCACGCAACCATGAGCAGCGGCTGGAGCACATCATGAGGCGAGCGGCCGGGAG
GAACAGCCTGAGAAGGACTTCTTTGGACGTGTGGTCTGTCAGGAGCACAGCAGTCCCGAGTGCAGGGGACACGGCC
CCGGAGCAGGACTCAGTGGAGCGGCGCATGGGCACAGCGGTGGGCAGGAGCGAGGTCTGGTTCCGCTTCAACGAG
GGTGTCTCAACCGCGTGGCGCGCAGCTGTACATCAGGGACTTGCTCTAGTTCTCTGAGCCGCGGACATGCCCT
CGCATTTGCTTCCCGCAGAGTGCAGAGACAGGAAGCTGGAGATGTCTTTATAAAGTCACACCTTTACAGACTGT

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FIGURE 4369

MEDYEQELCGVEDDFHNQFAAELEVLAEELEGASTPSPSGVPLFTAGRPPRTFEEALARGDAASSPAPAASVGSSQ
GGARKRQVDADLQPAGSLPHGRLAALPQGLRSGREAAEASGSLHVSPAPRIKRPRQLQVVKRLNFRSEEMEPPPP
PDSSPTDITPPSPEDLAELWGHGVSEAAADVGLTRASPAARNPVLRPPILEDYVHVTSTEGVRAYLVLRADPM
APGVQGSLLHVPWRGGGQLDLLGVSLASLKKQVDGERRERLLQEAQKLSDTLHSLRSGEEEAQPLGAPEEEPTD
GQDASSHCLWVDEFAPRHYTELLSDDFTNRCLLKWKLWDLVVFGHERPSRKPRPSVEPARVSKEATAPGKWKSH
EQVLEEMLEAGLDPQRPKQKVALLCGPPGLGKTTLAHVIAHAGYSVEMNASDDRSPEVFRTRIEAATQMESV
LGAGGKPNCLVIDEIDGAPVAAINVLLSIINRKGPQEVGPQPAVPSGGGRRRRAEGGLLMRPIICICNDQFAPS
LRQLKQQAFLHFPPTLPSRLVQRLQEVSLRQGMRADPGVLAALCEKTDNDIRACINTLQFLYSRGQRELSVRDV
QATRVGLKDQRRGLFSVWQEVFQLPRAQRRRVGQDPALPADTLLLGDDAGSLTSASQRFYRVLHAAASAGEHEK
VVQGLFDNFLRLRLRDSSLGAVCVLDWLAFFDLLAGAAHHSQSFQLLRYPFPLPVAFHVLFASSHTPRITFPSS
QQEAQNRMSQMRNLIQTLVSGIAPATRSRATPQALLLDALCLLLDILAPKLRPVSTQLYSTREKQQLASLVGTML
AYSLTYRQERTPDGQYIYRLEPNVEELCRFPELPARKPLTYQTKQLIAREIEVEKMRRAEASARVENSPQVDGSP
PGLEGLLGGIGEGVHRPAPRNHEQRLHIMRRAAREEQPEKDDFFGRVVVRSTAVPSAGDTAPEQDSVERRMGTA
VGRSEVWFRFNEGVSNAVRRSLYIRDLL

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FIGURE 4370

ATGGGTAGCCGGGCGGGGGCGGGGCCGGGGCCGCCGCTTAAAGAACTTGTTGCGGGTCCCGCAGCGGGACC
CGAGCCTCGGCGGCGGGCGGGCGGGCGGCAGGGGCGAGGGTCGGGGCCACCGCGCGGCGACCTCGGGTCCCGGAG
CGACCGCAGGGCAGCCCCGGGCGCCGGCCCCGGTGCGCGTCTCCTGTGCGCGCCCTCCGCGCGCGGGCCCCGATG
CTGGACATGAGCGAGGCCCCGTCCCAGCCGCCCTGCAGCCCGTCCGGCACCGCCAGCTCCATGTGCGACGTGGAG
GACTCGGACTCGGACGCGCCGCCGTCTCCCGCCGGCTCCGAGGGCCTGGGCCGCGCGGGGGTTCGCGGTGGGGGGC
GCCC GGCGGACCCGGCGGAGGCGGGCGGACGAGCGCTTCCCGGCCTGCATCCGCGACGCCGTGTGCGAGGTGCTC
AAGGGCTACGACTGGAGTCTGGTGCCCATGCCGGTGCGCGGCGGGCGGGCGGCGCGCTCAAAGCCAAGCCGCAT
GTGAAGCGGGCCATGAACGCATTTCATGGTGTGGGCGCAGGCGGGCGCGCCGCAAGCTGGCCGACCAGTACCCGCAC
CTGCACAACGCCGAGCTCAGCAAGACGCTGGGCAAGCTGTGGCGCTTGCTGAGCGAGAGCGAGAAGCGGGCCCTTC
GTGGAGGAGGCAGAGCGCCTTCGCGTGCAGCACAAGAAGGACCACCCCGACTACAAGTACCAGCCACGGCGCAGG
AAGAGCGCCAAAGCCGGCCACAGCGACTCCGACTCGGGCGCGGAGCTGGGACCCACCCCTGGCGGCGGTGCCGTG
TACAAGGCTGAAGCAGGGCTTGAGATGGGCACCACCATGGCGACCACACAGGGCAGACCCACGGGCCGCCACC
CCGCCCACCACCCCAAGACGGAGCTGCAGCAGGCGGGCGCCAAGCCGGAGCTGAAGCTGGAGGGACGCCGGCCG
GTGGACAGCGGGCGCCAGAATCGACTTCAGCAACGTGGACATCTCGGAGCTCAGCAGCGAGGTTCATGGGCACC
ATGGACGCCTTCGACGTCCACGAGTTCGACCAGTACCTGCCCCGCGGGCGGCCCAAGAGTGCCCCGTGGCCTCCGCG
GCCTATGGGGGCGCTACTTCCACGCCGGGGCGTCCCCCGTGTGGGCCCAAGAGTGCCCCGTGGCCTCCGCG
TCGCCCACCGAGACGGGTCCCCACGGCCGCACATCAAGACGGAGCAGCCGAGCCCCGGCCACTACGGCGACCAG
CCCCGAGGCTCGCCGACTACGGTTCCTGCAGCGGCCAGTCCAGCGCCACCCGGCGCCCCCGCGGCCCTTC
GCCGGCTCACAGGGCGACTATGGCGACCTGCAGGCCTCCAGCTACTATGGTGCTACCTGGCTACGCACCCGGC
CTCTACCAGTACCCCTGCTTCCACTCGCCGCGCGGCCCTACGCCTCACCCTGCTCAACGGCCTGGCCCTGCCG
CCGCCCCACAGCCCCACCAGTCACTGGGACCAGCCGGTGACACCACCCTGACCAGGCCCTGA

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FIGURE 4371

MGSRARGGAAGPPLKETCCGSRSGTRASAAAAAAGARVGATARRPRVPERPQGSPGRRPRCASPVRAPPRAAPM
LDMSEARSQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAEAADERFPACIRDAVSQVL
KGYDWSLVPMPVRGGGGGALKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLESESEKRF
VEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGGGAVYKAEAGLGDGHHHGDHTGQTHGPPT
PPTTPKTELQQAGAKPELKLEGRRPVDSGRQNIDFSNVDISELSSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQ
AYGGAYFHAGASPVWAHKSAPSASASPTETGPPRPHIKTEQPSPGHYGDQPRGSPDYGSCSGQSSATPAAPAGPF
AGSQGDYDGLQASSYYGAYPGYAPGLYQYPCFHSPPRPYASPLLNGLALPPAHSPTSHWDQPVYTTLTRP

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FIGURE 4372A

GGCACGAGGCCGGCGCTTCCCGGCCGGTGTGCTCCGCGCGGGGCCATGGCCAACGTCTCTAAGAAGGTGTCCTG
GTCCGGCCGGGACCGGGACGACGAGGAGCGCGGCCGCTGCTGCGGAGGACGGCGCGGCCCGGGCGGGGGACGCC
GCTGCTGAACGGGGCTGGGCTGCGCGCCAGTACACACGTTCTGCGCTTTTCCGAGCTCGGACATATGAG
CAGCGTGGAGCTGGATGATGAACCTTTGGACCCGGATATGGACCCTCCACATCCCTTCCCCAAGGAGATCCCACA
CAACGAGAAGCTCCTGTCCCTCAAGTATGAGAGCTTGGACTATGACAACAGTGAGAACCAGCTGTTCTCGGAGGA
GGAGCGGCGGATCAATCACACGGCCTTCCGGACGGTGGAGATCAAGCGCTGGGTCACTGCGCCCTCATTGGGAT
CCTCACGGGCCTCGTGGCCTGCTTATTGACATCGTGGTGGAAAACCTGGCTGGCCTCAAGTACAGGGTCATCAA
GGGCAATATCGACAAGTTACAGAGAAGGGCGGACTGTCCTTCTCCCTGTTGCTGTGGGCCACGCTGAACGCCGC
CTTCGTGCTCGTGGGCTCTGTGATTGTGGCTTTCATAGAGCCGGTGGCTGCTGGCAGCGGAATCCCCAGATCAA
GTGCTTCTCAACGGGGTGAAGATCCCCACGTGGTGGCGCTCAAGACGTTGGTGATCAAAGTGTCCGGTGTGAT
CCTGTCCGTGGTGGGGCCTGGCCGTGGGAAAGGAAGGGCCGATGATCCACTCAGGTTCACTGATTGCCGCCGG
GATCTCTCAGGGAAGGTCAACGTCACTGAAACGAGATTTCAAGATCTTCGAGTACTTCCGAGAGACACAGAGAA
GCGGGAATTCTCTCCGAGGGGCTGCGGCCGGAGTGTGAGCGCGCTTGGAGCCCCGTGGGTGGGGTCTGTGTT
CAGCTTGGAGGAGGGTGGCTCCTTCTGGAACAGTTCCTGACCTGGAGGATCTTCTTTGCTTCCATGATCTCCAC
GTTACCCCTGAATTTTGTCTGAGCATTACCACGGGAACATGTGGGACCTGTCCAGCCAGGCCTCATCAACTT
CGGAAGGTTTGACTCGGAGAAAATGGCCTACACGATCCACGAGATCCCGGTCTTCATCGCCATGGGCGTGGTGGG
CGGTGTGCTTGGAGCAGTGTTCATGCTTGAACCTACTGGCTGACCATGTTTGAATCAGGTACATCCACCGGCC
CTGCCTGCAGGTGATTGAGGCCGTGCTGGTGGCGCCGTCACGGCCACAGTTGCCTTCGTGCTGATCTACTCGTC
GCGGGAATTGCCAGCCCTGCAGGGGGCTCCATGTCTACCCGCTGCAGCTCTTTTGTGCAGATGGCGAGTACAA
CTCCATGGCTGCGGCCTTCTTCAACACCCCGGAGAAGAGCGTGGTGGAGCTCTTCCACGACCCGCCAGGCTCCTA
CAACCCCTGACCTCGGCCTGTTACGCTGGTCTACTTCTTCTGGCCTGCTGGACCTACGGGCTCACGGTGTGTC
TGCCGGGGTCTTCATCCCGTCCCTGCTCATCGGGCTGCTGGGGCCGGCTCTTTGGGATCTCCCTGTCTACCT
CACGGGGGCGCGATCTGGGCGGACCCCGGCAAATACGCCCTGATGGGAGCTGCTGCCAGCTGGGCGGGATTGT
GCGGATGACACTGAGCCTGACCGTCATCATGATGGAGGCCACAGCAACGTGACCTACGGCTTCCCCATCATGCT
GGTGCTCATGACGCCAAGATCGTGGGCGACGTCTTCATTGAGGGCCTGTACGACATGCACATTACGTGACAG
TGTCCTTCTGCACTGGGAGGCCCCGGTCACCTCACACTCACTCACTGCCAGGAGGTGATGAGCACACCACT
GACCTGCCTGAGGCGGCGTGAGAAGGTGGCGCTCATTGTGGACGTGCTGAGCGACACGGCGTCCAATCACAAACGG
CTTCCCCGTGGTGGAGCATGCCGATGACACCCAGCCTGCCCGCTCCAGGGCCTGATCCTGCGCTCCCAGTCAT
CGTTCTCTAAAGCACAAGGTGTTTGTGGAGCGGTCCAACCTGGGCTGGTACAGCGGCGCTGAGGCTGAAGGA
CTTCCGAGACGCCATACCGCGCTTCCACCCATCCAGTCCATCCAGTGTCCAGGACGAGCGGGAGTGACCAT
GGACCTCTCCGAGTTCAATGAACCCCTCCCCCTACACGGTGCCCCAGGAGCGTCTGCTCCACGGGTGTTCAAGCT
GTTCCGGGCCCCGGGCTGCGGCACCTGGTGGTGGTGGACAACCGCAATCAGGTTGTGCGGTGTTGACGAGGAA
GGACCTCGCGAGGTACCGCTGGGAAAGAGAGGCTTGGAGGAGCTCTGCTGGCCAGACGTGAGGCCAGCCCT
GCCATAATGGGCACTGGCGCTGGCACCCCGGCCCTTCTGCATTTCTCCCGGAGTCACTGGTTTCTCGGCCCAA
ACCATGCTCCCCAGCAGTGGCAATGGCGAGCACCTGCAGCTGGGCGGGCAGGCGGCAGGCGCGGAACCTGACCT
CTCGCGGACTGACCTGTTGTGGGCACTGGTCTCCCCCTTGGCGCCTCCTTGCGCAGGCCAGCCTCCACTCT
CCTCGTCTAGGTTTCTTTACCTCCAGGATCAGCTGTGTGTGTGACCTCCCTACCGGGCTATCGGCCTCTTGG
GAGCCAGCGGCAGGGCCGGCACCTGCGTGCCTGTGCCGTGTGCTGAGACAGAGCCCTTGCCCTGCTGCTGCC
CCGAGGGCTGCCCTGCCCTGGAAGGGCCCCCTGCTCCACACCAAGTGGAGTCTTCGAGACTTGGGAGCTGCTTG
GCCTCATTTTTCAGCCATGAGCAGACGGCCTGTGGTCCCTGGGCCTGAGGCACGGACTCGTAGCACCAGGGTTTGG
AGGCTGCGACCGCCCCGGAGAGCAGCTTCACTGGCGCCACAGAGGAGCCCCACGTGCACTCCCCGGCCTGCAT
CCGGCTTGGGTACACGGGCCAGAGGACTGGGGTGACTACGGGCCCTGTGCTGTGATGTTGAGAGCTGAGAAAA
ACCTCCAAGGCCCTGAGCCCCATGCCAGCCCTGCCTTGGTCCCCCAACCCCAAGAGCTTGGAGTCTGGGCCCCA
CACCCAGCCCTGCCTTGGTCCCTGAGCCTCAGAGCGTGAATTGCTGCCCTGTGGACACTGGCTGGGAAGGCAGG
TCTTCCCTTAGCAGATGGGGACCCCGGCCCTCGAGGGTGAACCTCCCTACCTTGCCCTGCCAGCCACCAAGCGCAG
GTGACGCGGGGGCCAGACTCCTGCCGGCCTCAGAGGACACCTGGCCACGACAGGACAGTAGAAGGGCCGGTGGG
CACCGGGGGCGGGAAGCCCCACCTCACCACTGAGGGCCCCCTGGGAGGCTCCTCTGGCCTGGCTGGGCTGGGTC
TGGGGCCGCCACAGGCCCTCACGGGCGGCAGAGGCAACTTCAGTGTCCCTGTTAGAGCAACACGGGTCCCTCC

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FIGURE 4372B

GTGGGGGGCTGGGTGCGGCCCCCTGCCGTGTATTTCCTCCCCAGGGAGTGGGGCCTCCCCGGGAGCTGACGCCAC
CACCTGCTTAGCCCTCACAGGGCCCCAAGGTGTCCGAGTGTGTTGGGTCTGAACGCGAAATAAGAAATCCTCT
CAAAAAAAAAAAAAAAAAA

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FIGURE 4373

MANVSKKVSWSGRDRDDEEAAPLLRRTARPGGGTPLLNGAGPGAARQSPRSALFRVGHMSSVELDDELLDPDMDP
PHPPFKEIPHNEKLLSLKYESLDYDNSENQLFLEEERRINHAFRTVEIKRWVICALIGILTGLVACFIDIVVEN
LAGLKYRVIKGNIDKFTEKGLSFSLLLWATLNAAFVLVGSVIVAFIEPVAAGSGIPQIKCFLNGVKIPHVVRLK
TLVIKVS GVILSVVGGGLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRDTEKRDFVSAGAAAGVSAA
FGAPVGGVLFSL EEGASF WNQFLTWRIF FASMISTFTLNFVLSIYHGNMWDLSSPGLINFG RFDSEK MAYTIHEI
PVFIAMGVVGGVLGAVFNALNYWLTMFRIYIHRPCLQVIEAVLVAAVTATVAFVLIYSSRDCQPLQGGSMSYPL
QLFCADGEYNSMAAAFFNTPEKSVVSLFHDPPGSYNPLTLGLFTLVYFFLACWTYGLTVSAGVFIPSL LIGA AWG
RLFGISLSYLTGA AIWADPGKYALMGAAAQLGGIVRMTLSLTVIMMEATSNVTYGFPIMLVMTAKIVGDV FIEG
LYDMHIQLQSV PFLHWEAPVTSHSLTAREVMSTPVTCLRRREKVGVI DVLSDTASNHNGFPVVEHADDTQPARL
QGLILRSQLIVLLKHKVFVERSNLGLVQRRRLRKDFRDAYPRFPP IQSIHVSQDERECTMDLSEFMNPSPYTVPQ
EASLPRVFKLFRALGLRHLVVVDNRNQVVGVLVTRKDLARYRLGKRGLEELS LAQT

GCGCCCCAGAGGCTCAAGAAAACCCGCGGGAGCCTCGCCCGGACCCAGGAACTCGTGCTCGGGGCCAACCGGCTC
GGCCGCGATCGCGTTTCGTCCGGGGCCGCGGCGGCCGTGGGGAATCGGCTGCAGCGAATCGGTGGCGCGCGGCGC
CTGAGCGCGCTGCAGTCACCCGGGAGCCGGGTCCAGGTCGTCTTCCCGTGACGCCCAGATCTGTCTGCAGGATG

[illegible]

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FIGURE 4375

MEPAPSEVRLAVREAIHALSSSEDGGHIFCTLESLKRYLGEMEPALPREKEEFASAHFSPVLRCLASRLSPAWL
ELLPHGRLEELWASFFLEGPADQAFVLVMEITIEGAAGPSFRLMKMARLLARFLREGR LAVLMEAQCRQQTRPGFI
LLRETLGKVVALPDHLGNRLQQENLAEFFPQNYFRLLGEEVVRVLQAVVDSLQGGLDSSVSFVSQVLGKACVHG
RQQEILGVLVPRLAALTQGSYLHQRVCWRLVEQVPDRAMEAVLTGLVEAALGPEVLSRLLGNLVVKNKKAQFVMT
QKLLFLQSRLTTPMLQSLGLHAMDSSQRRPLLLQVLKELLE TWGSSSAIRHTPLPQQRHVSKAVLICLAQLGEPE
LRDSRDELLASMMAGVKCRLDSSLPPVRRGMIVAEVVSARIHPEGPPLKFQYEEDELSLELLALASPPAGDGA
SEAGTSLVPATAEPPAETPAEIVDGGVPQAQLAGSDSDLDSDDEFVPYMSGDRELKSSKAPAYVRDCVEALTTS
EDIERWEAALRALEGLVYRSPTATREVSVELAKVLLHLEEKTCVVGFAGLRQALVAVTVTDPAFVADYLT SQFY
ALNYSLRQRM DILDVLTAAQELSRPGCLGRTPQPGSPSPNTPCLPEAAVSQPGSAVASDWRVVEERIRSKTOR
LSKGGPRQGPAGSPSRFNSVAGHFFFLQRFDRPLVTFDLLGEDQLVLGRLAHTLGALMCLAVNTTVAVAMGKA
LLEFVWALRFHIDAYVRQGLLSAVSSVLLSLPAARLLEDLMDELLEARSWLADVAEKDPDEDCTRLALRALLLQ
RLKNRLLPPASP

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FIGURE 4376

CGCTCCCGCACCGCCATCATGATCTGCCTGGTGCTGACCATCTTCGCTAACCTCTTCCCCGCGGCCTGCACCGGC
GCACACGAACGCACCTTCCTGGCCGTGAAGCCGGACGGCGTGACAGCGGCGGCTGGTGGGCGAGATTGTGCGGCGC
TTCGAGAGGAAGGGCTTCAAGTTGGTGGCGCTGAAGCTGGTGACAGGCCTCCGAGGAGCTGCTGCGTGAGCACTAC
GCCGAGCTGCGTGAACGCCCGTTCTACGGCCGCTTGTCAAGTATATGGCCTCCGGGCCGGTGGTGGCCATGGTT
TGGCAGGGGCTGGACGTGGTGCGCACCTCGCGGGCGCTCATCGGAGCCACGAACCCGGCCGACGCCCCGCCCCGC
ACCATCCGCGGGGATTCTGCATCGAGGTTGGCAAGAACCTGATTACGGCAGCGACTCGGTGGAGAGTGCCCCGC
CGCGAGATCGCTCTCTGGTTCCGCGCAGACGAGCTCCTCTGCTGGGAGGACAGCGCTGGGCACTGGCTGTATGAG
TAGCCCCGGCAGATGCGCGTCACAGAGGCTCTCACACTCCAGCCTCCTCCAGGGCCCAGGTGGGCGGGCTTCTGGC
CCCACCCACAGCGCTTGGAGCATCCCTTTGGACGGGCTGCTGAACATCCACCTGTCTGGACGTTGCATGGAGGG
TGGCGCAGGCCTCTCCAATCCCTGGCGTACAGGGTTTCTGCCCCGAGGAGCTGCTCCAGGAGCCTGCGCGGCTCG
CCTGGAAACGTGCCAGGACACTGTCTGGTGCCAGCCCAACGTGGTCCAACGTTTTTTTATAATAAAGTCCTCG
TTTTCGTT

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FIGURE 4377

MICLVLTIFANLFPAACTGAHERTFLAVKPDGVQRRLVGEIVRRFERKGFKLVALKLVQASEELLREHYAELRER
PFYGRLVKYMASGPVVAMVWQGLDVVRTSRALIGATNPADAPPGTIRGDFCIEVGKNLIHGSDSVESARREIALW
FRADELLCWEDSAGHWLYE

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FIGURE 4378

GCTGAGGACGCGGACCCGCCATGGCGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCCGCTGC
GCGCCCTGCGGGAGCAACTGAACAGGCCGCGCGACTCCCAGCTCTACGCGGTGGACTACGAGACCTTGACGCGGC
CGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCCGCGAGAGCCGCCTCTTGACAGCTGCTCG
GCCGCCTCCCGCTCTTCGGCCTGGGCCGCCTGGTCACGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCT
ACTGGCGCCTCACGCGGGTGCGGCCCGACTACACGGCGCAGAACTTGGACCACGGGAAGGCCTGGGGCATCCTGA
CCTTCAAAGGGAAGACTGAGAGCGAGGCGCGGGAGATCGAACACGTCATGTACCATGACTGGCGGGCTGGTGCCCA
AGCACGAGGAGGAGGCCTTCACCGCGTTACGCGCGCGCGGAAGACAGCCTGGCCTCCGTGCCGTACCCGCCTC
TCCTCCGGGCCATGATTATCGCAGAACGACAGAAAAATGGAGACACAAGCACCGAGGAGCCCATGCTGAATGTGC
AGAGGATACGCATGGAACCCTGGGATTACCTGCAAAACAGGAAGACAAAGGAAGGGCCAAGGGCACCCCGTCTT
AGAATGCCAGAACCAGCGGGTGGCCTTAGGGGCTGTGAGGCAGTGGGGACCTTATTGATGAAAGAAACCGTCTTT
GCGTTACACCCGAGTCTGCCTCTCGGAGCAGGGAGCTCACCTTCCGCGACGTGTTCTGAGGGTCTGCATCTTAGG
GGGAGGGCTGGGGCAAATCGCCACCTGTGCCTTTCCCTCTGGCCCTGCTGCCCCACACCCAACTCCGAGGGCCC
ACGCTGGGGAAAGCGGGAAGCGCTCGCTCCCTTTCCCCATTAGTGCTCTCTGCTGCTGGATCCCGGCAGAAGCT
ATGAAAGGGAATAAAGAGAAAAGAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4379

MARKKVRPRLIAELARRVRALREQLNRPRDSQLYAVDYETLTRPFSGRRLPVRAWADVRESRLQLLGRPLPLFG
LGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDHGKAWGILTFKGKTESEAREIEHVMYHDWRLVPKHEEEAF
TAFTPAPEDSLASVPYPPLLRAMI IAERQKNGDTSTEEPMLNVQIRMEPWDYPAKQEDKGRAKGPV

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FIGURE 4380

CTGGGAGGCTGACGGCCCGCGGGCGTAAGCGGACTGCAGCCGCGAGCTCCTGGAGGCGGCGGGATGGAGGCGGCG
GCCGAGCCTGGAAACCTGGCCGGCGTCAGGCACATCATCCTGGTCCTCTCAGGAAAGGGGGCGTTGGGAAAAGC
ACCATCTCCACGGAGCTGGCCCTGGCACTGCGCCATGCAGGCAAGAAGGTGGGAATCCTGGATGTGGACCTGTGT
GGCCCCAGTATACCCCGCATGCTCGGGGCGCAGGGCAGGGCTGTGCACCACTGCGACCGCGGCTGGGCACCCGTC
TTCTGGACCGGGAGCAGAGCATCTCGCTCATGTCTGTGGGCTTCCTGCTGGAGAAGCCGGACGAGGCCGTGGTG
TGGAGAGGCCCCAAGAAAAACGCGCTGATAAAGCAGTTGTGTCCGACGTGGCCTGGGGGGAGCTGGACTACCTG
GTGGTGGACACGCCCCCGGGGACCTCCGATGAGCACATGGCCACCATAGAAGCCCTGCGTCCCTACCAGCCCCTG
GGGGCCCTCGTGGTCACACGCCCCAGGCGGTGTCCGTGGGGGACGTGAGGCGCGAGCTGACCTTCTGTAGGAAG
ACGGGCTTGCGGGTGATGGGAATCGTGGAGAATATGAGCGGCTTCACCTGCCACACTGCACGGAGTGCACCAGC
GTCTTCTCCAGGGGCGGCGGAGAGGAGCTGGCCAGCTCGCCGGGGTGCCCTTCTTAGGCTCCGTGCCCTGGAC
CCTGCGCTCATGAGGACCCTGGAGGAGGGCCACGACTTCATCCAGGAGTTCCCGGGAGCCCCGCTTCGCTGCA
CTCACCTCCATAGCCCAGAAGATTCTGGACGCGACGCCCGCGTGCCTCCCCTGACTAAGGCCACCTTGCAGCCGC
TTTCCAGGGCCACCAAGGGCTCTGCTCCAGCCTCTCAGAGAAACAGAGGCCTGGGCTCGGTTCCCGGGCCCTGCA
GGGGCAGGCCCAGGCAGCGTCAGCGGGAGAGCTTCTCCCGACCAGCCCAGCCCAGGATGTGTGCGACCCAGCAG
CTCTGCCTGGTTGGCCTGCAGTGCCGTGGTCTGCGTGCTCTGCAGCTGTGAGACGGGGCGGCTGGGCTCTCTT
CCCATCCATGTTGCCTACCTGTGCCCCCTGGCAGCCGCGTGTCCACACAGTTAGCGGAGCGCAGGACTTCTGCAGT
CCTCAGGTGACCCCGGGCCTCCAGCACCCTGGGTCGCTGTCTGTGTTTAGCTCGGGGAGTGCCCCCTAAGGG
GGCGAACTGACCTCAGGCATGTCTTGTAACGTAGAGGCGCCTGCCATTAAACGTGTCCGCTGCTGTGGCGACAG

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FIGURE 4381

MEAAAEPGNLAGVRHIILVLSGKGGVGKSTISTELALALRHAGKKVGILDVDLCGPSIPRMLGAQGRAVHQCDRG
WAPVFLDREQSISLMSVGFLLEKPD EAVVWRGPKKNALIKQFVSDVANGELDYL VVDTPPGTSDEHMTIEALRP
YQPLGALVVTPQAVSVGDVRRELTFCRKTGLRVMGIVENMSGFTCPHCTECTSVFSRGGGEELAGVFPFLGS
VPLDPALMRTLEEGHDFIQEFPGSPAFAALTSIAQKILDATPACLP

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FIGURE 4382

CAAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCCGGGGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGATTTCT
TCCTGGGGGCCTCTCTCAAGGATGAGGTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCATTGTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATCGTCCCGTGCGCAGAGGCTACTGGGGGA
ACAAGATCGGCAAGCCCCACACTGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTACGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACCTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTACCAAGTCTCCCTATCAGGAGTTCACTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ATACAAGAAAAATAAAGTGAATTAAGCGTGAAA
AAA

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FIGURE 4383

MADDAGAAGGPGGPGMGNRGGFRGGFGSGIRGRGRGRGRGRGRGARGGKAEDKEWMPVTKLGRLVKDMKI
KSLEEIYLFSLPIKESEIIDFFLGASLKDEVLKIMPVQKQTRAGQRTRFKAFVAIGDYNGHVGLGVKCSKEVATA
IRGAIILAKLSIVPVRRGYWGNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAEVPKKLLMMAGIDDCYTS
ARGCTATLGNFAKATFDAISKTYSLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRTQAPAVATT

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FIGURE 4384

GGGAGTGTGGCGTTTCTGTGAAGAGTTCGGTGCTAACCTCCCTCACGCGGCGGTGGCTGCCGGGACCCTAGCAGGT
TTCAGCTGGAGCGGCGGCGGCGGCAACATGGCAGAGACCGCGCGGAGTGGGCCGCTTCAAGACCAACTATGCT
GTGGAGCGCAAAATTGAGCCTTTCTACAAGGGCGGAAAAGCACAGCTGGACCAGACTGGCCAGCACCTCTTCTGC
GTCTGTGGCACCAGAGTCAACATTCTGGAAGTGGCCTCGGGGGCCGTGCTGCGGAGTCTGGAGCAGGAGGACCAG
GAGGACATCACTGCCTTTGACCTCAGCCCTGACAACGAGGTGCTGGTGACAGCCAGTTCGGGCATTGCTGCTGGCT
CAGTGGGCCTGGCAAGAGGGCAGCGTTACCCGCCTGTGGAAGGCGATACACACGGCCCCCGTGGCCACCATGGCC
TTCGACCCACCTCCACTCTGCTAGCCACAGGTGGCTGTGATGGGGCCGTGCGCGTCTGGGACATCGTGCGGCAC
TACGGGACACACCCTCCGAGGCTCGCCCGGTGTCGTGCACCTAGTGGCCTTCCACCCGGACCCTACACGCCTG
CTGCTCTTCTCCTCGGCCACGGATGCCGCCATCCGCGTGTGGTCACTGCAGGACCGGTTCATGCCTGGCTGTGCTG
ACTGCCCCACTACAGCGCCGTCACTCACTGGCCTTCAGCGCCGACGGCCACACCATGCTCAGCTCCGGCCGTGAC
AAGATATGTATCATCTGGGACCTTCAGAGCTGCCAGGCCACGAGGACCGTGCCTGTGTTTGAGAGCGTGGAGGCT
GCTGTGCTGTTGCCAGAGGAGCCAGTGTCCAGCTGGGTGTGAAGTCCCAGGGCTGTACTTTCTGACAGCTGGC
GACCAAGGCACTCTGCGCGTGTGGGAGGCAGCTTCTGGGCAGTGTGTGTACACGAGGCCAGCCGCCGGGCCCT
GGGACAGGAGCTGACCCACTGCACCCTGGCACACACCGCCGGCGTGGTCTCACCGCCACCGCCGACCACAACCTG
TTGCTCTACGAGGCTCGCTCCCTGCGGCTGCAGAAACAGTTCGCTGGCTACAGTGAGGAGGTTTTGGATGTCCGG
TTTCTTGGGCCCCGAGGACTCCACGTTGTCTGGCCTCCAATAGCCCTGCCTAAAAGTGTGTTGAGCTGCAGACG
TCAGCCTGCCAGATCCTCCACGGCCACACGGATATCGTCTGGCCCTGGATGTGTTCCGGAAGGGGTGGCTCTTT
GCCAGCTGTGCCAAGGATCAGAGCGTCCGTATCTGGAGAATGAACAAGGCTGGCCAGGTGATGTGCGTGGCTCAG
GGTTCGGGTACACACACAGTGTGGGCACCGTCTGCTGCTAGGCTGAAGGAGTCTTCTGCTGACAGGCAGC
CAGGACTGCACTGTGAAGCTGTGGCCTCTTCCCAAAGCCTTGTGTCCAAGAACACAGCCCCAGACAACGGCCCT
ATCCTCCTGCAGGCCCAGACCACTCAGCGCTGCCATGATAAGGACATCAACAGCGTGGCTATTGCCCCAACGAC
AAGCTGCTGGCCACAGGCTCACAGGACCGCACGGCCAAGCTCTGGGCCCTGCCACAGTGCCAGCTGCTGGGTGTC
TTCTCAGGCCACCGCGTGGCCTCTGGTGCGTCCAGTTCTCTCCATGGACCAGGTGCTGGCCACGGCCTCAGCT
GATGGCACCATCAAGCTCTGGGCACCTCCAGGACTTCAGCTGTCTCAAGACATTTGAGGGGCACGATGCTTCTGTG
CTGAAGGTGGCCTTTGTGAGCCGTGGCACGCGAGTGTGTCCAGCGGTTCCGATGGCCTCGTGAAGCTCTGGACC
ATCAAGAACAACGAGTGTGTGCGGACGCTGGATGCCACGAGGACAAGGTCTGGGGGCTGCACTGCAGCCGGCTG
GACGACCACGCCCTCACTGGGGCCAGTGACTCCCGAGTCATCTCTGGAAGGATGTGACCGAGGCGGAGCAGGCA
GAGGAGCAGGCCAGGCAAGAGGAGCAGGTGGTCAGGCAGCAAGAGCTGGACAACCTGCTGCATGAGAAGCGGTAC
CTGCGGGCGCTGGGCCTGGCCATCTCCCTGGATCGGCCCCACACCGTGTGACTGTCTATCCAGGCCATCCGGAGG
GACCCTGAGGCCCTGCGAGAAGCTGGAAGCCACCATGCTCCGACTGCGGCGCGACCAGAAAGAGGCCCTGCTGCGC
TTCTGCGTCACTGTGAACACCAACTCGCGGCACTGCCACGAGGCCAGGCCGTGCTGGGTGTGCTCTTGAGGCGA
GAGCCCCCGAGGAGTGTCTGGCCTACGAAGGCGTGCGGGCAGCGCTTGAGGCCCTGCTGCCCTACACTGAGCGG
CACTTTACGCGGCTCAGCAGGACCCTCCAGGCCGCGCTTCTTGGAATCTCTGTGGCACAACATGAAGCTCCCT
GTGCCGGCCGCCGCCCCACCCCTGGGAAACCCATAAAGGCGCACTGCCCTAGCCGGTCCGGCCTCTCTCCAGT
CCATCCTGAACCCCTGGAAACCCATAAAGGCCGCTCTCTGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4385

MAETAAGVGRFKTNYAVERKIEFFYKGGKAQLDQTGQHLFCVCGTRVNILEVASGAVLRSLEQEDQEDITAFDLS
PDNEVLVTASRALLLAQWAWQEGSVTRLWKAIHTAPVATMAFDPTSTLLATGGCDGAVRVWDIVRHYGTHHFRGS
PGVVHLVAFHDPTRLLLFSSATDAAIRVWSLQDRSCLAVLTAHYSAVTSLAFSADGHTMLSSGRDKICIIWDLQ
SCQATRTVPVFESVEAAVLLPEEPVSQLGVKSPGLYFLTAGDQGTLRVWEAASGQCVYTQAQPPGPGQELTHCTL
AHTAGVVLTAADHNLLLYEARSRLQKQFAGYSEEVLDRFLGPEDSHVVVASNSPCLKVFELQTSACQILHGH
TDIVLALDVFRKGWLFASCAKDQSVRIWRMNKAGQVMCVAQGSNGTHSVGTVCSSRLKESFLVTGSQDCTVKLWP
LPKALLSKNTAPDNGPILLOAQTQORCHDKDINSVAIAPNDKLLATGSQDRTAKLWALPQCQLLGVFSGHRRGLW
CVQFSPMDQVLATASADGTIKLWALQDFSLKTFEGHDASVLKVAFVSRGTQLLSSGSDGLVKLWTIKNNECVRT
LDAHEDKVWGLHCSRLDDHALTGASDSRVILWKDVTEAEQAEQARQEEQVVRQQELDNLLHEKRYLRALGLAIS
LDRPHTVLTVIQAIRRDPEACEKLEATMLRLRRDQKEALLRFCVTWNTNSRHCHEAQAVLGVLLRREAPEELLAY
EGVRAALEALLPYTERHFQRLSRTLQAAAFLDLWNNMKLPVPAAAPT PWETHKGALP

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FIGURE 4386

GGCACGAGGCAAGAGCAAAGGGGCCAGCACCCCCGCTGCCTCCACGCTGCCACCGCCAACGGGGCCCGACCGGC
GCGCTCCGGGACTGCGCTTCCGGCCCCGACGCGCCGCCAACGGGCCTTGACGCCGGCCGGCCCTCGCTTGGC
GGCGGTGTCGACTTCTACGACGTCGCCTTCAAGGTCAATGCTGGTGGGGGACTCGGGTGTGGGAAGACCTGTCTG
CTGGTGGCATTCAAGGATGGTGCTTTCCTGGCGGGGACCTTCATCTCCACCGTAGGCATTGACTTCCGGAACAAA
GTTCTGGACGTGGATGGTGTGAAGGTGAAGCTGCAGATGTGGGACACAGCTGGTCAGGAGCGGTTCCGCAGTGTT
ACCCATGCCTACTACCGGGATGCTCATGCTGCTGCTGCTCTACGATGTCACCAACAAGGCCTCCTTTGACAAC
ATCCAGGCCTGGCTGACCGAGATCCACGAGTACGCCCAGCACGACGTGGCGCTCATGCTGCTGGGGAACAAGGTG
GACTCTGCCCCATGAGCGTGTGGTGAAGAGGGAGGACGGGGAGAAGCTGGCCAAGGAGTATGGACTGCCCTTCATG
GAGACCAGCGCCAAGACGGGCCTCAACGTGGACTTGGCCTTCACAGCCATAGCAAAGGAGTTGAAGCAGCGCTCC
ATGAAGGCTCCCAGCGAGCCGCGCTTCCGGCTGCATGATTACGTTAAGAGGGAGGGTCGAGGGGCCTCCTGCTGC
CGCCCTTGAACCTGGCTGAGCTCAGTCCTCTGGAGGAAGCCGCCAGTCCCTAGAAGGCTGGACAGAGGGTCTCC
AGGCCCTTCTGACTTTGTGTTGCCCCAGTGGCCAACGCCGAGTGTCTGTTTTTCAGGAGCCCCAGGTCAAGCCTTGTC
CCTTCCTCCTCCCAGCAACAGTCCCAACAAGCAGGCTTCTGAGAGCCCGTGGCCGCACACTGGCCGCCACGAAA
AGCAGTCTTCTGCACGGGACGGGGAGCGGCAAGTGGACAGACTTTGCCACGGTGTCTGCTGCCCTCCTGGGC
ACGTCCAGGTGAGGGAGGGCTGGGGCTGGCACCACGCACAGTGCCTAACCCTAGAAAAGCCATGTCTTCAGCCGC
ACATGCTCAGGCAGCTAAGGGAGGACGCCGCCCCACGCCCTGGGACAGAAGGCTTCACTGCTAATCACATCGTGCA
TCTGTGTGTCCTGGGAGCTGCCTGTGCCCTTGTGATAAAATGTGGGAAATCACAGAAAACACCAGAAACAACAAC
CTCACTGACCTTGGAGGATGCCTGTGGCCTTGTGATAAAATGTGGGAAATCACAGAAAACACCAGAAACAACAAC
TGCCAGCCCGCCTGGCCACAGGTGAGGTCTGTGATTTCCGAGCACGCTCCACCTTGCACTCAACTTGGCCTTTT
GATTGCACAAGCCTTTGTTTTAGTCCTAGTGAATAAAGTTGTGTTTTCTGGAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4387

MLVGDSGVGKICLLVRFKDGAF~~LAG~~TFISTVGIDFRNKVLDVDGVKVKLQMWDTAGQERFSVTHAYYRDAHALL
LLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLLGKVD~~SA~~HERVVKREDGEKLAKEYGLPFMETSAKTGLNVDL
AFTAIAKELKQRSMKAPSEPRFRLHDYVKREGRGASCCRP

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FIGURE 4388

GGGCGGGAGGTGCTTCCCAAGGACCGTAGATGCCTCTCTAGAGCATGAGCTCAGGCAAGAGTGCCCGCTACAACC
GCTTCTCCGGGGGGGGCCAGCAATCTTCCCACCCAGACGTACCCACAGGGACCAGAATGGAAACGACCTTCGGAC
CCGCCTTTTCAGCCGTACCCACCATCACAAAAGCTGACGGGACCAGCACCTACAAGCAGCACTGCAGGACAGCAT
GCCCCCATCAGCACTCCCCGCGCTCCGACTCCGCCATCTCTGTCCGCTCCCTGCACTCAGAGTCCAGCATGTC
TCTGCGCTCCACATTCTCACTGCCGAGGAGGAGGAGGAGCCGGAGCCACTGGTGTTTGCGGAGCAGCCCTCGGT
GAAGCTGTGCTGTCACTCTGCTGCAGCGTCTTCAAAGACCCCGTGATCACACGTGTGGGCACACGTTCTGTAG
GAGATGCGCCTTGAAGTCAGAGAAGTGTCCCGTGGACAACGTCAAAGTACCCTGGTGGTGAACAACATCGCGGT
GGCCGAGCAGATCGGGGAGCTCTTCACTCCACTGCCGGCAGCGCTGCCGGGTAGCGGGCAGCGGGAAGCCCCCAT
CTTTGAGGTGGACCCCCGAGGGTGCCCTTCAACATCAAGCTCAGCGCCCGGAAGGACCACGAGGGCAGCTGTGA
CTACAGGCCTGTGCGGTGTCCCAACAACCCAGCTGCCCCCGCTGCTCAGGATGAACCTGGAGGCCCACCTCAA
GGAGTGCAGACATCAAATGCCCCACTCCAAGTACGGGTGCACGTTTCATCGGGAACCAGGACACTTACGAGAC
CCACCTGGAGACTTGCCGCTTCGAGGGCCTGAAGGAGTTTCTGCAGCAGACGGATGACCGCTTCCACGAGATGCA
CGTGGCTCTGGCCCAGAAGGACCAGGAGATCGCCTTCTGCGCTCCATGCTGGGAAAGCTCTCGGAGAAGATCGA
CCAGCTAGAGAAGAGCCTGGAGCTCAAGTTGACGTCTTGACGAAAACCAGAGCAAGCTCAGCGAGGACCTCAT
GGAGTTCGGGCGGGACGCATCCATGTTAAATGACGAGCTGTCCACATCAACGCGCGGCTGAACATGGGCATCCT
AGGCTCTACGACCTCAGCAGATCTTCAAGTGCAAAGGACCTTTGTGGGCCACCAGGGCCCTGTGTGGTGTCT
CTGCGTCTACTCCATGGGTGACCTGCTCTCAGTGGCTCCTCTGACAAGACCATCAAGGTGTGGGACACATGTAC
CACCTACAAGTGTGAGAAGACACTGGAGGGCCATGATGGCATCGTGTGGTCTCTGTCATCCAGGGGTGCAAACT
CTACAGCGGCTCTGCAGACTGCACCATCATTGTGTGGGACATCCAGAACCTGCAGAAGGTGAACACCATCCGGGC
CCATGACAACCCGGTGTGCAGCTGGTCTCCTCACACAACGTGCTCTTACGCGCTCCCTGAAGGCCATCAAGGT
CTGGGACATCGTGGGCACTGAGCTGAAGTTGAAGAAGGAGCTCACAGGCCTCAACCACTGGGTGCGGGCCCTGGT
GGCTGCCAGAGCTACCTGTACAGCGGCTCCTACCAGACAAATCAAGATCTGGGACATCCGAACCTTGACTGCAT
CCAGTCTCTGAGAGCTGTGGTGGCAGCGTCTACTCCATTGTGTGACAAATCACACATTGTCTGTGGCACCTA
CGAGAACCTCATCCAGTGTGGGACATTGAGTCCAAGTAGGAGGTGCGGACCCTCACGGGCCAGTGGGCACCGT
GTATGCCCTGGCGGTCTCGACGCCAGACCAGACCAAAGTCTTCAAGTGCATCCTACGACCGGTCCCTCAGGGT
CTGGAGTATGGACAACATGATCTGCACGCAGACCCTGCTGCGTCACCAGGGCAGTGTACCCGCGCTGGCTGTGTC
CCGGGGCCGACTCTTCTCAGGGGCTGTGGATAGCACTGTGAAGGTTTGGACTTGCTAACAGGATCCAGGCCAGGC
TGTTGGTTTCCCTGAACCAAGCCCTGGACCTTCTGAGCCAGGCTGGCCACATGGGGTGGTCTCGGGGTTTCTGCC
TGCCCCGTGGGCATAGGTGGACAGGCTCTGGCAGCCGGGCACTGCCCTCCCCGTCCCATGCTCGGCGAGCCTCCC
TCTACTCGGCCTGTCTTGTGCTGCCAGCCCTCTCTGGGTGCCAGGTACGACGCTTGCCCCGGCCCCACCTCCA
TCCCCACCTCCATCCCCACCTAGATGGAGCGAGGGCCTTTTACTACCTTTTCTACCGTTTGTAGACTGTAT
GTAGATTTGGTTACCTCCTGGTTGAATAAATGCTCCACAGACTGTGGCTGTGAGTGGGGACAGCTCCTCGGGAC
AAGGGGCTGTGTGTGGCCTTGAGGTTGGTGTGCACAGGCACTGGCTGCTGTGAGTGGGGGGCATGGGGCAGTT
TCCTTTGGTGGACCCCAGGACTTCGGCCCACTCCGGGGCTCCCTTCCCTGCTAGGAGGCAACTCGTCAACCCA
AGCTGCTGGCCTCCAGTCCCATCTCCCCAACACATGTGCCCCAAAAGTGAGCCAGGCACCTCTGTTTCTGTC
TGTTTATTGACAGCCGACGGCAGCGCCTTGCCAGACCTCCCTGCCCACCTGCTGGAGCCCAGCCTGTGCCGCC
CTCTGAGGAGAGGCCTGGGGGACAGCTGGGCACGTCCACTCGCAGGGAAACACGGGTGAGACAGCAGGAAGGG
GCCCTGCACGCCGGGACGCCACCTCCGCCAGCCGCTCCACCCGCCCCACACCACAATCGTGGTTTTCGGCATT
TTTTAAATTTTTTTTTTAAAGAAACGTCAAAGTTGTGCCAACACTGTGGATCAGCAAACACGATAGAGGAGACCA
GTCAGTACTTCTTGGAGGGGGCAGGAGGAGAGGAAAAGGGAGGGCGAGAATGACCACACAACACAGCCTTGGA
CCATGAGCAGAAGCGTCCGTGGGAACCTCACTGGGGTGGATGGGCTGCCTGCACAGCCCTGGAGAGGGGGCCAG
GCACACCTCAGAGGAGCTGCAAGCCCGTGGCCTGGCTGCTACATGCCCTGCTTCCAGTGGCTGCCACGCTGA
CACACCCACATTACCAAACCCACCCGCGCCTGGGACGCAGCCACGCCAGGAGGAGACACGGCCGCCGAGAGC
AAGGCACAACCTCGAGTTCTTGGGGCGCAGAGAACTTAGGAGAGAAGCACGGAGGAGCCCCCGGCAGAGCACCCG
CCCCGGGGCCCCAGCCTTCCACCTGTGCTAGCAGCCTGGGGCTCCACTCTGGCCGGAGGAAGGACCGCAGGCAG
ACAGCCTGGGCCTCTAACAGCTTTTGTCCGGAGCTAGACTTCGTGTCTTTTCAAGTTGGTAAATGGTTTTCTATAG
AATCAATAATATTTCTTTTAAATATATATTTGTTAAAGTTATACCTTTTGTCTTCTGGGGAAATCCGCCT
CAGCTCATTCCCAATAAATAAATACTCTTGATAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAA

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FIGURE 4389

MPPISTPRRSDSAISVRSLSHSESSMSLRSTFSLPEEEEEPEPLVFAEQPSVKLCCQLCCSVFKDPVITTCGHTFC
RRCALKSEKCPVDNVKLTVVVNNIAVAEQIGELFIHCRHGCRVAGSGKPPIFEVDPRGCPFTIKLSARKDHEGSC
DYRPVRCPNPSCPPLLRMNLEAHLKECEHIKCPHSKYGCTFIGNQDTYETHLETCTFEGLKEFLQQTDDRHEM
HVALAQKDQEI AFLRSM LGK LSEKIDQLEKSLELKFVDLDENQSKLSEDLMEFRRDASMLNDEL SHINARLN MGI
LGSYDPQQIFKCKGTFVGHQGPVWCLCVYSMGDLLFSGSSDKTIKVWDTCTTYKCQKILEGHDGIVLALCIQGCK
LYSGSADCTIIIVWDIQNLQKVNTIRAHDNPVCTLVSSHNVLFSGSLKAIKVWDIVGTELKLLKELTGLNHWVRAL
VAAQSYLYSGSYQTIKIWDIRTLDCIHVLQTSGGSVYSIAVTNHHIVCGTYENLIHVWDIESKEQVRTLTGHVGT
VYALAVISTPDQTKVFSASYDRSLRVWSMDNMICTQILLRHQGSVTALAVSRGRLFSGAVDSTVKVWTC

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FIGURE 4390

AGCCCGCGACCTTTATCCCGCGCGTTGCGGTCAAGATGGCGCTGGTGGCTTCTGTTGCGAGTCCGGCGCGCGTTT
TGCTCCGCGCGGGGGCCCGGCTCCCGGGCGCGGCCCTCGGGCGGACGGAGCGGGCGGCCGGCGGAGACGGCG
CGCGGCGCTTCGGGAGCCAGCGGGTGCTGGTGGAGCCGGACGCGGGCGCAGGGGTCGCTGTGATGAAATTCAGA
ACCCCCAGTGAACAGCCTGAGCCTGGAGTTTCTGACGGAGCTGGTCATCAGCCTGGAGAAGCTGGAGAATGACA
AGAGCTTCCGCGGTGTCATTCTGACCTCGGACCGCCCGGGTGTCTTCTCGGCCGGCCTGGACCTGACGGAGATGT
GTGGGAGGAGCCCCGCCACTACGCTGGGTACTGGAAGGCCGTTTCAAGGAGCTGTGGCTGCGGTTGTACCACTCCA
ACCTGGTGCTGGTCTCCGCCATCAACGGAGCCTGCCCCGCTGGAGGCTGCCTGGTGGCCCTGACCTGTGACTACC
GCATCCTGGCGGACAACCCAGGTACTGCATAGGACTCAATGAGACCCAGCTGGGCATCATCGCCCCCTTCTGGT
TGAAAGACACCCTGGAGAACACCATCGGGCACCGGGCGGCGGAGCGTCCCTGCAGCTGGGGCTGCTCTTCCCGC
CGGCGGAGGCCCTGCAGGTGGGCATAGTGGACCAGGTGGTCCCGGAGGAGCAGGTGCAGAGCACTGCGCTGTGAG
CGATAGCCCAGTGGATGGCCATTCCAGACCATGCTCGACAGCTGACCAAGGCCATGATGCCGAAAGGCCACGGCCA
GCCGCTGGTACGCGAGCGCGATGCGGACGTGCAGAACTTCGTGAGCTTCATCTCAAAGACTCCATCCAGAAGT
CCCTGCAGATGTACTTAGAGAGGCTCAAAGAAGAAAAAGGCTAACGATTGGGCTGCCACAGGCTTACGGCCACAC
GTGCCCCTGTGGGTCCCAGGGAGGTCTTAAACAAGGTATTTTCAACTT

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FIGURE 4391

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLVEPDAGAGVAVMKFKNPFVNSLSLEFL
TELVISLEKLENDKSFRGVILTSDRPGVFSAGLDLTEMCGRSPAHYAGYWKAVQELWLRLYQSNLVLVSAINGAC
PAGGCLVALTCDYRILADNPRYCIGLNETQLGIIAPFWLKDTLENTIGHRAAERALQLGLLFPPAEALQVGIVDQ
VVP EEQVQSTALSAIAQWMAIPDHARQLTKAMMRKATASRLVTQORDADVQNFVSFISKDSIQKSLQMYLERLKEE
KG

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FIGURE 4392

GGCCCGCGGGACTCAGACCAGCGGGGAGCGCGGCCTCCGCCCTTGGGGCCCTCCCGCGGGCCGGAGACCCAAGC
CCCCAACGCCAGGCCCTGCCCTGGAAGCGCTCGCGGCCCGCGCCTGGACGGGGAGTTGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAAATGGATTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCAACAAAGTGACATTGGGA
GACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCGTGGAAAGGATGCATCCCCATCTGTCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGTGCTGGCCCCCT
GGCCTAGGCCACCCCCCAGGAGATTCAGCCCTCCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCTCCCGATAAACAGGCCACTGAAGCTCTCGCCCCTGTAACT
TATACCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCCGGCTGCAGAAGTGCTGTTGGTTTGATG
CTGTGTGCTGTCAAGATTCCTCCGGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGGTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAGTGAGGCTCTTGGGGGTGGTTTGACCTTGCTTACCTGGGAGCACACTTTTCC
CTTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGACAGCTGCCAACCCCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCACCACTGTACTCTGAAATTGGCGAGTGAGTGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTTCATGGTGGTCTTTCAGGTTATCTTGGAACATGTACATTGCTTTTTATTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTTTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGT
GTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCAAGATCGGAATGCAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4393

MDLSGVKKKSLGKVENNKKSTRAPSPTRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDRRRSRKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPRRFSPPRRMLPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSS
SNSSR

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FIGURE 4394

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGCGGCGGCGGGAAGATGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCGTGGAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGTGCTGGCCCCCT
GGCCTAGGCCACCCCCCAGGAGATTCAGCCCTCCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCCTCCCGATTAACAGGCCACTGAAGCTCTCGCCCCCTGTAAC
TATACCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCCGGCTGCAGAAGTGTGTTGGTTTGATG
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGGTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAGGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCC
CTTCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGCAGCTGCCAACCTGTTAGGCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCACCACTGTACTCTGAAATTGGCGAGTGAGTGGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTCTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGT
GTTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGCAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4395

MDLSGVKKKSL LGVKEN NKSS TRAPSP TKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPRRFSPPRMLPPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHSRSS
SNSSR

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FIGURE 4396

GCGAGGTTCTGCGCGGGCGCGGAAGACGGGCGGCGGTGGCGGAAGGGTTTCGGGACGGTACGCACCAGCCACCTT
CGCGCCGAAGGCGGTAGGGCGCCACGGAGAGGAACCGCTCTAGGCACGTAAGGCCTCGTGAGGTTGCGTCGCGCG
CGGAGCACTCTGGGACTTGTAAGTTCTGGAGATGGAGCGAGCTGTGCCGCTCGCGGTGCCTCTGGGTGAGAGGTGT
TCCAGGCCTTGCGAGCGGCTCCATATGACCATCTTCTCCAGAGCGTCTCACCATGTGGGAAGTTCTGGCGGCTG
GCAACAATTACGGGCAGATTGCCATCTTCAGCTTGTCCTCTGCTTTGAGCTCAGAAGCCAAAGAGGAAAGTAAGA
AGCCGGTGGTGACTTTCCAAGCCCATGATGGGCGCGTCTATAGCATGGTTTCCACCGATCGACATCTGCTTAGTG
CTGGGATGGGGAGGTGAAGGCCTGGCTTTGGGCGGAGATGCTCAAGAAGGGCTGTAAGGAGCTGTGGCGTCGTC
AGCCTCCATACAGGACCAGCCTGGAAGTGCCTGAGATCAACGCTTTGCTGCTGGTCCCCAAGGAGAATTCCTCA
TCCTGGCTGGGGGAGACTGTGAGTTGCACACTATGGACCTTGAACTGGGACTTTCACGAGGGTCTCCGGGGCC
ACACAGACTACATCCACTGCCTGGCACTGCGGGAAAGGAGCCAGAGGTGCTGTCAGGTGGCGAGGATGGAGCTG
TTCGACTTTGGGACCTGCGCACAGCCAAGGAGGTCCAGACGATCGAGGTCTATAAGCACGAGGAGTGTCTGAGGC
CCCACAATGGGCGCTGGATTGGATGTTTGGCAACTGATTCCGACTGGATGGTCTGTGGAGGGGGCCAGCCCTCA
CCCTCTGGCACCTCCGATCCTCCACACCCACCACCATCTTCCCCATCCGGGCGCCACAGAAGCACGTACACCTTCT
ACCAGGACCTGATTCTGTGAGCTGGCCAGGGCGCTGCGTCAACCAGTGGCAGCTGAGCGGGGAGCTGAAGGCC
AGGTGCCTGGCTCCTCCCCAGGGCTGCTCAGCCTCAGCCTCAACCAGCAGCCTGCCGCGCCTGAGTGCAAGGTCC
TGACAGCTGCAGGCAACAGCTGCCGGGTGGATGTCTTACCAACCTGGGTTACCGAGCCTTCTCCCTGTCTCTCT
GATCTCTGACGACACCCCCAGCCAGCTCAGGGTTTAGAGTGTTTTTCATTTTCTTTTTTTTTTTTTTACAATAA
AGTTTCAGGCTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4397

MTIFSQSVSPCGKFLAAGNNYGQIAIFSLSSALSSEAKEESKKPVVTFQAHGDPVYSMVSTDRHLLSAGDGEVKA
WLWAEMLKKGCKELWRRQPPYRTSLEVPEINALLLVPKENSILLAGGDCQLHTMDLETGTFTRVLRGHTDYIHCL
ALRERSPEVLSSGGEDGAVRLWDLRTAKEVQTIEVYKHEECSRPHNGRWIGCLATDSDWMVCGGGPALTLWHLRSS
TPTTIFPIRAPQKHVTIFYQDLILSAGQGRCVNQWQLSGELKAQVPGSSPGLLSLSLNQQPAAPECKVLTAAGNSC
RVDVFTNLGYRAFSLSF

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FIGURE 4398

GCGGCGGGCGCAGACAGCGGCGGGCGCAGGACGTGCACTATGGCTCGGGGCTCGCTGCGCCGGTTGCTGCGGCTC
CTCGTGCTGGGGCTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGCTCC
CGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCAATGGACTGCGCGTCTTGCAAGGGCGCGACCGCACAGCGAC
TTCTGCCTGGGGCTGCGCTGCAGCACCTCCTGCCCCCTTCCGGCTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGC
CTGACCTTCGTGCTGGGGCTGCTTTCTGGCTTTTTGGTCTGGAGACGATGCCGCAGGAGAGAGAAAGTTCACCACC
CCCATAGAGGAGACCGGCGGAGAGGGCTGCCAGCTGTGGCGCTGATCCAGTGAACAATGTGCCCCCTGCCAGCCG
GGGCTCGCCCACTCATCATTCAATTCATCCATTCTAGAGCCAGTCTCTGCCTCCAGACGCGGGCGGAGCCAAGCT
CCTCCAACCACAAGGGGGGTGGGGGGCGGTGAATCACCTCTGAGGCCTGGGCCAGGGTTAGGGGAACCTTCCA
AGGTGTCTGGTTGCCCTGCCTCTGGCTCCAGAACAGAAAGGGAGCCTCACGCTGGCTCACACAAAACAGCTGACA
CTGACTAAGGAACTGCAGCAATTTGCACAGGGGAGGGGGGTGCCCTCCTTCCTTAGGACCTGGGGGCCAGGCTGAC
TTGGGGGGCAGACTTGACACTAGGCCCCACTCACTCAGATGCCTGAAATTCCACCACGGGGGTACCCCTGGGGG
GTTAGGGACCTATTTTTAACACTAGGGGCTGGCCCCACTAGGAGGGCTGGCCCTAAGATACAGACCCCCCAACTC
CCCAAAGCGGGGAGGAGATATTTATTTTGGGGAGAGTTTGAGGGGAGGGAGAATTTATTAATAAAAGAATCTTT
AACTTTAAAAAAAAAAAAAAAAA

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FIGURE 4399

MARGSLRRLRLLLVLGLWLALLRSVAGEQAPGTAPCSRGSWSADLDKCMDCASCRARPHSDFCLGCAAAPPAPF
RLLWPILGGALSLTFVLGLLSGFLVWRRRCRRREKFTTPIEETGGEGCPAVALIQ

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FIGURE 4400

GGCACGAGGATCTCCTTCGCAGTGCAGCTCCTTCAACCTCGCCATGCGCCTCTGCCGGAATGCAGATCCTGGGAGT
CGTCCTGACACTGCTGGGGCTGGGTGAATGGCCTGGTCTCCTGTGCCCTGCCCATGTGGAAGGTGACCGCTTTCAT
CGGCAACAGCATCGTGGTGGCCAGGTGGTGTGGGAGGGCCTGTGGATGTCCTGCGTGGTGCAGAGCACCGGCCA
GATGCAGTGC AAGGTGTACGACTCACTGCTGGCGCTGCCACAGGACCTGCAGGCTGCACGTGCCCTCTGTGTCAT
CGCCCTCCTTGTGGCCCTGTTCCGGCTTGCTGGTCTACCTTGCTGGGGCCAAGTGTACCACCTGTGTGGAGGAGAA
GGATTCCAAGGCCCGCCTGGTGTCTACCTCTGGGATTGTCTTTGTTCATCTCAGGGGTCTGACGCTAATCCCCGT
GTGCTGGACGGCGCATGCCGTATCCGGGACTTCTATAACCCCTGGTGGCTGAGGCCAAAAGCGGGAGCTGGG
GGCCTCCCTCTACTTGGGCTGGGCGGCCCTCAGGCCTTTTGTGTGGTGGGGGGTTGCTGTGCTGCACTTGCCC
CTCGGGGGGGTCCAGGGCCCCAGCCATTACATGGCCCGCTACTCAACATCTGCCCTGCCATCTCTCGGGGGCC
CTCTGAGTACCCTACCAAGAATTACGTCTGACGTGGAGGGGAATGGGGGCTCCGCTGGCGCTAGAGCCATCCAGA
AGTGGCAGTGCCCAACAGCTTTGGGATGGGTTCGTACCTTTTGTTCCTGCTATTTTTCTTTTGACTGA
GGATATTTAAAATTCATTTGAAACTGAGCCAAGGTGTTGACTCAGACTCTCACTTAGGCTCTGCTGTTTCTCAC
CCTTGATGATGGAGCCAAAGAGGGGATGCTTTGAGATTCTGGATCTTGACATGCCCATCTTAGAAGCCAGTCAA
GCTATGGAACATAATGCGGAGGCTGCTTGCTGTGCTGGCTTTGCAACAAGACAGACTGTCCCCAAGAGTTCCTGCT
GCTGCTGGGGGCTGGGCTTCCCTAGATGTCACTGGACAGCTGCCCCCATCCTACTCAGGTCTCTGGAGCTCCTC
TCTTCACCCCTGGAAAAACAAATGATCTGTAAACAAAGGACTGCCACCTCCGGAACCTCTGACCTCTGTTTCCT
CCGTCCTGATAAGACGTCCACCCCCCAGGGCCAGGTCCCAGCTATGTAGACCCCGCCCCCAGTCCAACACTGC
ACCTTCTGCCCTGCCCCCTCGTCTACCCCTTTTACACTCACATTTTTATCAAATAAAGCATGTTTTGTTAGT
GCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4401

MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTGQMCKVYDSLLALPQ
DLQAARALCVIALLVALFGLLVYLAGAKCTTCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAHAVIRDFYNP
LVAEAQKRELGASLYLGWAASGLLLGGGLLCCTCPSGGSQGPHYMARYSTSAPAI SRGPSEYPTKNYV

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FIGURE 4402

CAGGACTCCCGTGAGGGGGAACGGCCCGTGAACGCGCGGGAGCTGCTCGCGCCCCGCCAGTCGCCCCAGGGCT
TCCCCACACCCACGGAGTGAAGTCAGCCGCGGCCCTGCCTGGGAGGAACTTACCGTCTACCGGGAAGGTGGCCA
GCAGATGTGTCGGGCCTGGTGAGAGGGTGAGGCGAGACGGCCCGATCGCCCAGGGCCCCGGAAGCTGCGGAGGTC
ACCCCCGCTGGCCTTAGCTCAGGGACACCTGGATTACGTGGGAGCCCCGTGCTCCTGCCTCCCCCGTCCCACC
ACTGAAGCTGTTGGGCCAGGCCAGTCATGCTAGAACGGCTCCTGCACTGGCCATGCCATGCCACGGAGGGCA
CCCCGCCACCTCTGAGTGGCACCCCCATCCCAGTCCCAGCCTACTTCCGCCACGCAGAACCTGGATTCTCCCTCA
AGAGGGCCAGGGGGCTCAGCCGGAGCCTCCCACCTCCGCCCCCTGCCAAGGGCAGCATTCCCATCAGCCGCCCTCT
TCCCTCCTCGGACCCAGGCTGGCACCAGCTGCAGCCCCGGCGGGTGTCACTCCGGGGCAGGCCTCAGAGACTC
TGCAGAGCCCTGGGTATGACCCAAGCCGCCAGAGTCTTCTTCCAGCAGAGCTTCCAGAGGCTCAGCCGCCCTGG
GCCATGGCTCCTACGGAGAGGTCTTCAAGGTGCGCTCCAAGGAGGACGGCCGGCTCTATGCGGTAAAGCGTTCCA
TGTCACCAATTCCGGGGCCCCAAGGACCGGGCCCGCAAGTTGGCCGAGGTGGCAGCCACGAGAAGGTGGGGCAGC
ACCCATGCTGCGTGCGGCTGGAGCAGGCCTGGGAGGAGGGCGGCATCCTGTACCTGCAGACGGAGCTGTGCGGGC
CCAGCCTGCAGCAACACTGTGAAGCCTGGGGTGCCAGCCTGCCTGAGGCCAGGTCTGGGGCTACCTGCGGGACA
CGCTGCTTGCCCTGGCCCATCTGCACAGCCAGGGCCTGGTGCACCTTGATGTCAAGCCTGCCAACATCTTCTTG
GGCCCCGGGGCCGCTGCAAGCTGGGTGACTTCGGACTGCTGGTGGAGCTGGGTACAGCAGGAGCTGGTGAGGTCC
AGGAGGGAGACCCCGCTACATGGCCCCCGAGCTGCTGCAGGGCTCCTATGGGACAGCAGCGGATGTGTTAGTC
TGGGCCTCACCATCCTGGAAGTGGCATGCAACATGGAGCTGCCCCACGGTGGGAGGGCTGGCAGCAGCTGCGCC
AGGGCTACCTGCCCCCTGAGTTCACTGCCGGTCTGTCTTCCGAGCTGCGTTCTGTCCTTGTCATGATGCTGGAGC
CAGACCCCAAGCTGCGGGCCACGGCCGAGGCCCTGCTGGCACTGCCTGTGTTGAGGCAGCCGCGGGCCTGGGGTG
TGCTGTGGTGCATGGCAGCGGAGGCCCTGAGCCGAGGGTGGGCCCTGTGGCAGGCCCTGCTTGCCCTGCTCTGCT
GGCTCTGGCATGGGCTGGCTCACCTGCCAGCTGGCTACAGCCCCCTGGGCCCCGACGCCACCCGCTGACTCAC
CACCCTGCAGTTTGCTCCTGGACAGCAGCTTCTCCAGCAACTGGGATGACGACAGCCTAGGGCCTTCACTCTCCC
CTGAGGCTGTCTTGGCCCGACTGTGGGGAGCACCTCCACCCCCGAGCAGGTGCACACCCAGGGATGCCCTGG
ACCTAAGTGACATCAACTCAGAGCCTCCTCGGGGCTCCTTCCCTCCTTTGAGCCTCGGAACCTCCTCAGCATGT
TTGAGGACACCCTAGACCCAACCTGAGCCCCAGATTCTGCCTCTGCACTTTTAACCTTTTATCCTGTGTCTCTCC
CGTCGCCCTTGAAAGCTGGGGCCCCCTCGGGAACCTCCCATGGTCTTCTCTGCCCTGGCCGTGTCTAATAAAAAAGTAT
TTGAACCTTGAAAAAAAAAAAAAGAAG

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FIGURE 4403

MLERPPALAMPMPTEGTTPPPLSGTPIPVPAYFRHAEPGFSLKRPRGLSRSLPPPPPAKGSIPISRLFFPRTPGWH
QLQPRRVŠFRGEASETLQSPGYDPSRPESFFQQSFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKRSMSPFRGPKD
RARKLAEVGSHEKVGQHPCCVRLEQAWEEGGIYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRDTLLALAH LH
SQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGTAGAGEVQEGDPRYMAPELLQGSYGTAADVFSLGLTILEVA
CNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLVMMLEPDPKLRATAEALLALPVL RQPRAWGVLWCMAAEA
LSRGWALWQALLALLCWLWHGLAHPASWLQPLGPPATPPDSPPCSLLDSSFSSNWDDDSLGP SLSPEAVLARTV
GSTSTPRSRCTPRDALDLSDINSEPPRGSFPSFEPRNLLSMFEDTLDPT

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FIGURE 4404

GGCCACCGCCGCCGCCGCCGCCGCGAGCTGTCCCTGCGGCGCGTCTGCCTTGCGGGAGCCGACCGCAGTGCGCTC
AGGCGTCCGGTGCGTCCCCAGCCTCCGCCCGGCGCGGGGGCGACGGACTCGCGCGTGCGCAGCGCCGGAGGGGC
GCGGGCTGGGACCCCTAGCCAGCGCTGCGCCGATCGAGCGCAGGGCGATGGGTGGGCGCCGGGCGCGGGGCGC
CAGGCAGTGATGGGCCCTTCCCGCGCTGCGGCCCACTGAGGAGGAGGCTCGGGGACAGCAGGAGCACGGGCTGCC
CGCGCGGTGCGGACCATGGCGTTCTTGCCGGGCGCGCCTGCTGGACTGGGCCAGCTCGCCGCCGCACCTGCAG
TTCAATAAGTTTCGTGCTGACCGGGTACCGGCCCGCCAGCAGCGGCTCGGGGTGCCTGCGCAGCCTCTTCTACCTG
CACAAACGAAC TGGGCAACATCTACACGCACGGGCTGGCCCTGCTGGGCTTCTGGTGCTGGTGCCAATGACCATG
CCCTGGGGTCAGCTGGGCAAGGATGGCTGGCTGGGAGGCACACATTGCGTGGCCTGCCTTGACCCCCCTGCAGGC
TCCGTGCTCTATCACCTCTTTATGTGCCACCAAGGGGGCAGCGCTGTGTACGCCCGGCTCCTCGCCCTGGACATG
TGTGGGGTCTGCCTTGTCAACACCCTTGGGGCCCTGCCCATCATCCACTGCACCCTGGCCTGCAGGCCCTGGCTG
CGCCCGGCTGCCCTGGTGGGCTACACTGTGTTGTGCGGTGTGGCCGGCTGGCGTGCTCTACCCGCCCCCTCCACC
AGTGCTCGGCTCCGGGCATTTGGATGGCAGGCTGCTGCCCGCTACTGGTATTTGGGGCCCGGGGAGTGGGTCTG
GGTTCAGGGGCTCCAGGCTCCCTGCCCTGCTACCTGCGCATGGACGCACTGGCGCTGCTTGGGGGACTGGTAAAT
GTAGCCCGTCTGCCCCGAGCGCTGGGGACCTGGCCGCTTTGACTACTGGGGCAACTCCCACCAGATCATGCACCTG
CTGAGCGTGGGCTCCATCCTGCAGCTGCACGCCGGCGTCTGTCGCCGACCTGCTCTGGGCTGCCACCACGCCTGT
CCCCGGGACTGAGCTGCCATGCCAGCCTGCCACAGCAGCCTCCTAGAGTTAGCAACACCAGGTGTTCTCCCAA
CTCGTCTGCAAGGGGCTGGCTCCTTGGATGCTTCCAGCTCATGAGATGTCTCAGCAGGAGCCCTGTTACCCGTT
CTTCCCTGTGGACTGACCTCTTCCACCCACGCCGTGGCGCTCCAACTTCTTCCCTGCCTTTTCCCTCCAAGCTC
CTATTTTACTGTGTGCTGAGCTGGAAGGAAACCTTTCCCTCTTGGGACCTCTTTACCCTCTGTGACCTGTGGGGTTAG
ACCAGAGAGGGACTCTGGGGTCACGTCTTGCTCTGAGAGTTCAAGTCTGCCAGGCCGCCAGCCCAGAGCCTCCT
CACCTATCCTGTTCTTCCACCAGGCCGTGGCCAGTCTTCTGATCTCCATCTTTCTGCCCTGCATACCAGCC
CTCCAGCAGCCACAAGCTTGCCCGCCCTGGCTCCCTCTGCCAGAGACTATGGAGTAAGGCATTGAGGACAAAA
GGACCAAGGGGGCGTGGACCCGTCTTGTAACAGCTGGCCACAGGCACAAGGGCTGCAGCTGCTTCTTCCAGGAAA
CTGACACAGGGAGCTCAGCGGCCTCAGATCCTGGGACCCCTGGGCCGTGCCTGCCCTCCACCTGAGTGCCATAC
TCCCAACAGCTCCAGGTACCCACCGGGGGATGTGCCTGCTCAGGAAACCTCTTTGCTCCACACAGCATGGGGCTT
CAGCTGCTGGCCCAAGGCCAGGAGCGCTGGGTTCTGCAGCAGGGCTCAGCCTCAGGGGCGTTAAGACCCTGGATG
ACATCAATAAAGGGACAGGAAGGGCCATGTTGCCACATGAGCAAGCTTGGGTGCTCCCAAGGTTCAAATACTTTT
TATTAGACACGGCCAGGCAGAGAAGACCATGGGAGTTCCCGAGGGGCCCCAGCTTTCAAGGGCGACGGGAGAGAC
ACAGGATAAAAGGTTAAAAGTGCAGAGGCAGAGTCTGGGGCTCAGGTTGGGTCTAGGGTGTCTCAAACAGGCTG
AGGAGGTTCCGAGGCTCAAAGGAGGGGAAGGAGCCCCGAGGAGGCTCTGAGTTGATGTCACTTAGGTCCAGGGCA
TCCCTGGGAGGAGAGTAGTGACACTCAGGATCCAAAAGCTAGCCCTGCCACCCAGCCCTGGACCTGCTTA
CCTGGGTGTGCACCTGCTCCGGGGGGTGGAGGTGCTCCCAAGTCCGGGCCAGGACAGCCTCAGGGGAGAGTGA
AGGCCTGCAGGAGGGCAGGCGAGACAAGGAGGGTGTCCAGGGCTAGGGAGTGCCGGATGAAACCAGCTCTGTCCC
TGTGCAGGCTCCAGGCTCCCGCCTGACAAACAGGCAGGGAGCCACAGTCAGGGACAATAAAAACTTGGTGCACTC
TGAAAGCAGCACTTGACAGCCTTCAAAGTCCTTCCATCTGGCTGCACTCCAAGGCCCCCTCTGTCTTTTCAGA
ACACATGGACTTGAGGCAGATTTGAAATAAACTTTTAGTAAATGT

4775/6881
FIGURE 4405

MAFLAGPRLLDWASSPPHLQFNKFVLTGYRPASSGSGCLRSFYLNELGNIYTHGLALLGFLVLVPMTMPWGQL
GKDGWLGGTHCVACLAPPAGSVLYHLMCHQGGSAVYARLLALDMCGVCLVNTLGALPIIHCTLACRPWLRPAAL
VGYYTVLSGVAGWRALTAPSTSARLRAFGWQAAARLLVFGARGVGLGSGAPGSLPCYLMDALALLGGLVNVARLP
ERWGPGRFDYWGNHQIMHLLSVGSILQLHAGVVPDLLWAAHHACPRD

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FIGURE 4406

GGGAGACTGTGACAGGACAACGCCCCCTAGGTCTCCTGGGAGACCCCGAAGCGACCCCGGGGGCAGCCCGGGCCG
TGTCCGGGCGAGGGTGACCTATCCTTGGTTGAGAGCGATGGGGACACAAGCCCTGCAGGGCTTCCTCTTTCTCCT
CTTCCTCCCGCTGCTGCAGCCGCTGGGGCTTCGGCTGGGAGCCTGCACAGTCCAGGCCCTGTCCGAATGCTTCCA
GGTGAATGGGGCTGACTACCGCGGCCACCAGAACCAGCACTGGCCCGCGCGGGGCGGGCCGCCCCGTGCCTCTTCTG
GGACCAGACGCAGCAACACAGCTACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGGCTGGGCGCGCACAACTT
CTGCCGTAACCCAGACGGTGACGTGCAGCCGTGGTGCTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTA
CTGCGACATCCCCCTCCTGTACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCCAGCCCTCAG
CGCCCCCAGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGCATGAAGGGGTACCAGCT
GGCGGGCGTGGAGGCCGGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCGGGGACGCCTGGCCCCCGC
CACCGACTGTGACCAGATCTGTTTCGGCCACCTGGACAGCTGTGTGGCGCGATGGGCGGCTGGGCGTCTATGA
AGTGTGCGTGGGCTCCTGCCAGGGGAAGTGGACAGCGCTCAGGGCGTCATCTACTCCCCGGAATTCCCGGACGA
GTACGGGCGCGACCGGAAGTGCAGCTGGGCCCTGGGCCCCCAGGCGCGCGCTGGAGCTCACCCTCCGCCTCTT
CGAGCTGGCCGACCCGCGCGACCGGCTGGAGCTGCGCGACGCGGCTTCGGGCAGCCTGCTCCGCGCCTTCGATGG
CGCCCGCCACCGCCGTCCGGGCGCTGCGCCTGGGCACTGCCGCGCTGCTGCTCACCTTCCGAAGCGACGCGCG
CGGCCACGCGCAAGGCTTCGCGCTACCTACCGCGGGCTGCAGGACGCGCTGAGGACCCAGAGGCCCCGAGGG
CTCGGCCCAGACCCCGCGCGCCCCCTCGACGGGGCCAACGTGAGCTGCAGCCCCAGGCCTGGGGCTCCGCCGGC
CGCGATTGGGGGAGCTGTCTGCTGGCTCCGGGAAAAGGGCCCCCGCGCTGGGGGCTTCAGGGGCCCCAGGAGA
AGCTGGGCTGTGTGGTACCAACAGCCCCGAGGGGTGGCCTTGCCCTGCTCCCCGGGGACCCCCAGGCTGAGGGT
TCTGCCGCGGGCTACCGGCCTCTGAGTGGCTCCAGCCAGAGCTCCCTGCGCTCGCTCATCTCCGCTCTCTGACTC
TGGGCCCCGAGGGTCCGCTGGGCCCCCGCGCGGAGATGGACACCTGAGATGCTGTGCTGCGCCCTGCCTCGGC
CTTGCGCCTGTGTAGGGGAGCTCGGCCCTCTGGTCGCCTTGGGGAGACCAAAAGTCGGACAGGAAACATCTGGTG
CTATTATCTGGGACTTGGCCTGACCGTGGGGGTCCAGATGGTCCAGGCCCTCTCCATGGACCTGTATGTGGGGGT
GGTCTCTGGTTTCGGAGGTCTTTGAACCCCTCTGGGGGTGGTCCTGGACTGCCGCTCCTCAGTGAGAGGTACAGG
TCAGCAAAAACAGTCAAAAACCCCCACAGATTTGAATAAAGGATCTACTTTGGTAAAAAAAAAAAAAAAAAAAA

4777/6881
FIGURE 4407

MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNRTGPRGAGRPCLFWDQTQQHSYSSAS
DPHGRWGLGAHNFCRNPdGDVQFWCYVAETEEGIYWRYCDIPSCHMPGYLGCFVDSGAPPALSGPSGTSTKLTVO
VCLRFCRMKGYQLAGVEAGYACFCGSEDLARGRLAPATDCDQICFGHPGQLCGGDGRLGVYEVSQGNWTA
PQGVIIYSPDFPDEYGPDRNCSWALGPPGALELTFRLELADPRDRLELRDAASGSLLRAFDGARPPPSGPLRLG
TAALLLTFRSDARGHAQGFALTYRGLQDAAEDPEAPEGSAQTPAAPLDGANVSCSPRPGAPPAAIGGAVCWLRK
GPRRWGLPGAPGEAGLCGTNSPEGWPCPAPPGTPLRLVLRATGL

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FIGURE 4408

GCTGGGAGTAGAGGGCAGAGCTCCACCCCGCCCCCGCCCCAGGGGGCGCCCCGGGCCCCGCGCGAGAGGAGGCA
GAGGGGGCGTCAGGCCGCGGGAGAGGAGGCCATGGGCGCGCGCGGGGCGCTGCTGCTGGCGCTGCTGCTGGCTCG
GGCTGGACTCAGGAAGCCGGAGTCGCAGGAGGCGGCGCCGTTATCAGGACCATGCGGCCGACGGGTTCATCACGTC
GCGCATCGTGGGTGGAGAGGACGCCGAACTCGGGCGTTGGCCGTGGCAGGGGAGCCTGCGCCTGTGGGATTCCCA
CGTATGCGGAGTGAGCCTGCTCAGCCACCGCTGGGCACTCACGGCGGCGCACTGCTTTGAAACCTATAGTGACCT
TAGTGATCCCTCCGGGTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCCTGCAGGCCTA
CTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCTATGACATTGCCTT
GGTGAAGCTGTCTGCACCTGTCACCTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTGAGTT
TGAGAACCGGACAGACTGCTGGGTGACTGGCTGGGGGTACATCAAAGAGGATGAGGCACTGCCATCTCCCCACAC
CCTCCAGGAAGTTCAGGTCGCCATCATAAACAACTCTATGTGCAACCACCTCTTCCTCAAGTACAGTTTCCGCAA
GGACATCTTTGGAGACATGGTTTGTGCTGGCAATGCCCAAGGCGGGAAGGATGCCTGCTTCGGTGACTCAGGTGG
ACCTTGGCCTGTAACAAGAATGGACTGTGGTATCAGATTGGAGTCGTGAGCTGGGGAGTGGGCTGTGGTCGGCC
CAATCGGCCCGGTGTCTACACCAATATCAGCCACCACTTTGAGTGGATCCAGAAGCTGATGGCCCAGAGTGGCAT
GTCCCAGCCAGACCCCTCCTGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCCTGGGGCCGGTCTG
AGCCTACCTGAGCCCATGCAGCCTGGGGCCACTGCCAAGTCAGGCCCTGGTTCTCTTCTGTCTTGTGGTAATA
AACACATTCCAGTTGATGCCTTGCAGGGCATTCTTCAAAA

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FIGURE 4409

MGARGALLLALLLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAELGRWPWQGSRLWDSHVCVSLLSHR
WALTAAHCFETYSDLSDP SGWMVQFGQLTSMPSFWSLQAYYTRYFVSNIYLSPRYLGNSPYDIALVKLSAPVTTYT
KHIQPICLQASTFEFENRTDCWVTGWGYIKEDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAG
NAQGGKDACFGDSGGPLACNKNGLWYQIGVVSWGVCGRPNRPGVYTNISHHFEWIKLMAQSGMSQPDPSWPLL
FFPLLWALPLLGPV

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FIGURE 4410A

GCAGCGCGGCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCCTTGCGGCCCTGAGGAAGCGAGGAGGCGTCCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGGCGGCCAGGCCGAGGGACTCGGGAGCTCGAGCAGC
GGCGCGGCAAGACCTCTCCCCCTCGGAGGCGGGCGGGCGGAGGCGGGGAGCGGTGGTGCCCCCGGGCAGC
GGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGCGAGCGGCACCAACGGCTACGTCCAGCGCAACCTGT
CCCTGGTGCGGGGCCCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAACTGCGGCGCCTGGAGGCTGCCC
TGGTGAAGCGGCCTAATCTTGACATCCTGGACCACGAGCGCAAGCGGCGCGTTCGAGCTGCGATGCCTCGAGCTGG
AGGAGATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTGC
TGGAGAAGGATGTGAACCTTGGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTACGGGAGACTCACCAGT
TGGCAGAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGCA
GCTCTTTTGATCCTCAGCGTCGTGCCGAGAAGCTAAACAACAGCTCCTGAGCCTCCCAAACCTTACAGCCTTG
TTCGGGAGTCTAGCAGTTCTCGCTCACCAACCCCAAAGCAGAAGAAGAAGAAAAAGAAAGATAGAGGACGCA
GGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAGCTCAAAGAAGAAGAAGCACAGGTGAGAATCTGAGT
CCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAACGTAATCTAAGGACAAAAAGCGAAAGCGGTCTC
GAAGTACAACACCAGCCCCAAGAGCCGCGGGGCCACCGTTCAACTTCTGCTGACTCTGCTTCTCTCTCCGATA
CTTCCCGCAGTCGGTCTCGAAGTGCTGCAGCTAAACTCATACAAGTGCCTTGGCTGGGCGAAGTCTTCCCTTG
CTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACAGGTACTACCAGCACACAACGGCCTAGTAGCC
CGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACTC
GACCTAGCCCCCTCTCCGAAAGGAGCAGCACAGGCCCAGAACCACTGCTCCCACTCCGCTCCTTGCTGAGCGAC
ATGGCGGCTCCCCACAACCCCTTGCAACCAACCCCTTAAGCCAGGAGCCAGTGAACCCCCATCTGAGGCCTCTC
CAACTCGGGACCGTTTACCACCTAAGTCTCCCGAGAACTTCCCCAGTCTTCTTCTCAGAGAGCAGCCCACCAT
CCCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGTCTTCCCCAGAAAGTCTTAAACCTGCTCCAGCTCCAGGGT
CCCACCGAGAGATTTCTTCTTCTCCACATCTAAGAATCGTCCATGCGCGAGCAAAACGGGATAAATCACATT
CTCATACCCCTTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGAA
CCCCCTACCAAGAGAGGTCAATCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGAA
GATCTAGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACCC
AGAGAAGAGGCAGGTCTAGGTGAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCTC
GTTCTAGAACACCAGCCCGCGGGGCGAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACTC
CCACAGGCGTAGGTCTCGGTCTAGAACACCAGCCCGGAGGGGCGAGGTCTCGGTCTAGAACACCTGAGGCGCA
GATCTAGGACCCGATCACCAGTACGACGCAGGTCTCGTAGTAGATCACCAGCCAGGAGAAGTGGCAGGTACGCT
CTAGAACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGACGTGGCCGCTCACGCTCTAGAACCC
CAGCTAGACGCAGTGGTCTGCTCACGCTCCAGAACACCAGCCAGGAGGAGGTCTCGGTCTAGGACACCAAGAC
GAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGAT
CTGGCTCATCTTCAGAGCGGAAAAACAATCCAGAATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCAGAAA
TGAAGAAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTTACCACGGTCCAAAGCAAAATCTCGCTTGT
CTTTGAGGCGCAGCCTTTCAGGGTCTTCCCCATGCCATAAACAAAAGTACAGACACCACCCAGGCGCAGTCTGCT
CTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCAGTCTGCTCCAGTTCTTCTCCGCCACCTA
AACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCTCTCTCATCTCTAAAGTGAAATCTGGAACAC
CACCAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTTG
AATCATACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCTCTCTAGAG
TGAAATCTAGCACACCTCCAGACAGAGCCCATCTAGGTATCATCTCCACAACCCAAAGTGAAGGCAATAATAT
CACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCCAAGTCTAGTAGGGTGACGTGAGAACTCCACGGC
GAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTCT
CACCAGATACCAAAGTGAAACCTGAAACACCGGCAAGACAAAGTCACTCAGGGTCTATTTACCATACCCCAAAG
TAAAGGCCAAACTCCACCGGGGCCAAGTCTTTCTGGATCAAAGTCAACATGTCCCCAAGAGAAGTCTAAAGACT
CACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGAGGAGTAAATCTAGCACACCACAGGCGAGAGCT
ATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTTACCAGACCACAGATCTGATACTTCAAGTC
CAGAAGTGAGACAGAGTCAATCAGAATACCATCTCTGAGAGCAAACTCAAACATCACCTAAGGGAGGTGGT
CCAGGTCTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCGA

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FIGURE 4410B

GTCTATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTGG
ACTCGAATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAAGAGAAAATGGCCTTACCCCCCTCAGG
AGGATGCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCTT
CACTGGTATTCAAAGACACACTTAGAACCCCGCCAAGGGAAGAAGTGGTGCTGGGTCATCTCCAGAAACAAAG
AGCAAAATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCCG
CAGGCCAAATCCTGTCTCATTGTCTTCAGAACTTAAAGAAATGTCCACAAGTAACCTTGAATCATCTCCTGAAG
TAGAAGAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTCC
CTTCAATGGCCTCATCTTGGGGTGGGCCACATTTTCTCCAGAACATAAAGAACTGTCTAACTCCCCACTCAGGG
AGAACAGCTTTGGATCACCTTTAGAATTTAGAACTCAGGCCACTTGGTACAGAAATGAATACTGGATTTTCTT
CTGAGGTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAAACAGATCCATCTCTAGACATGAAAGAAC
AATCGACAAGATCCTCTGGACACAGCAGTTCGTAGTTATCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCAA
ATCAGAGCATCTCTTACCTGTGCTTGATGCTGTATCCAGAACACCCTCGAGAGAAAGAAGTAGTTCTGCATCTT
CTCCTGAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGAG
ATGGGTCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCTCTCCTGGAATGAAAGATATACCTAGAACGCCAT
CTAGAGGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCCGT
CTCCATCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTG
ATCAGAAAACGTGGCTCGGACTCCCTGGGGCAGAGAAGTCGTTTCGGGATCCTCTCAAGAACTTGATGTGAAAC
CCAGTGCATCCCCCAGAGCTCAACAACAAGTGTCTTACCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTG
GGCAGAGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAACTCGACTATCCCTCGCGCAGTAGGTCTG
GTTCTCTCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCTCTCTCTGAAC
CTAAAGCTCCAGCCCCTCGGGCCCTTCCAGACGAAGCAGATCAGGTTCTATCAAGCAAAGGCAGAGGCCCTTCTC
CTGAAGGAAGCAGCAGTACCGAGTCTCTCTGAACATCCGCCCCAAATCCAGAACTGCTCGCAGAGGTTCCAGGT
CATCACCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACAA
GGAAGGCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCTCACCAGAACTCGCTCTAGAACTCCCCCAAGGC
ACCGGAGTACTCCCTCAGTGTCTTCCCCGGAGCCAGCGAATAATCGAGGTCTTACGCCGACGGCGCTCAGCTT
CATCTCCACGCACTAAGACAACCTCAAGGAGAGGGCCGCTCTCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCCC
GTTCCCGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCTC
GGCGAAGACAGCGGAGCCGGTCAAGGTCGCGGGTTACTCGCGCGGAGGGGAGGCTCTGGTTATCACTCAAGGT
CACCTGCCCGGAGGAAAGTTCCCGGACCTCTCTCGACGCCGAAGAGCCGCTCTCGGACACCCCCAACCCAGTC
GGAAGCGTTCTCGTTCACGCACATCACCAGCCCCGTGGAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCACC
GGCGATCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTACCAGTCAGCCGGAGAC
GGTCAAGGTCCAGGACTTCACTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCATCCA
GATCCAGAACGCCACCAGTAACCCGCGCTCGTTCAAGGTCTAGAACGCCAACAACACGCCGCCGCTCCCGTTCTA
GAACTCCACCAGTGAATCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGAA
CTTCGCCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCACCCGAAGGAGATCTCGATCTCGCACAT
CTCCAGTAACCTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCTC
CAGCACAGGATCAGCCGAGGTCTCTGTGCTTCTGCTTTTTTTCAGACCAATCCCGTTGTTTGATTGCCAGACCA
CCCCCTGTAGCAGGTCTCAGTCCCTTTCTCTGGGGCAGTGGAACGACCACGTCCTCTGTGGTGATCACAAATG
GCATGCTCTCTGTCCCTGCCCCCTGGGGTGGCCACTCTGATGTGGGGGAGCCACCTGCCTCTACTGGGGCCAGC
AGCCTTCTGCATTAGCCGCCCTGCAGCCAGCAAAGGAGCGGCGGAGTTCTCTCTCGTCGTCGTCCTCTAGCT
CCTCCTCTCTTTCATCATCGTCGTCGTCGTCCTCTCTCTCTCTCTGCTCCAGTTCTAGTGACTCAGAGGGCTCTA
GCCTTCTGTGCAACCTGAGGTGGCACTGAAGAGGGTCCCCAGCCCCACCCAGCCCCAAAGGAGGCTGTTTCGAG
AGGGACGTCCTCCGGAGCCAACCCAGCCAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGTCTCTCTCTT
CATCTTCT
CCTCCT
AGCCACCCCCCTGGCGAGCGGAGGTCCCGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTCA
GCTACTCGCCTGTGGAGCGTCGCCGTCCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGCAGTGAAGC
GGGGTTCCCGGAGAGGCCAGCGTGGGGACAGCCGCTCCCCAGCCACAAGCGCAGGAGGGAGACCTAGCCCTC

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FIGURE 4410C

GGCCCATGAGACACCGCTCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGAG
CCACAAGGAGTGTCCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAGC
CCTTGGATGGAGGGCTCCCTTCCCTCCCTTTTTTTTTTCTTTGTTTCCTGTGAAATGTTAATCTCCGTGAGTTC
TTCCTGGTTCATGTGTTCTGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACAG
TTCAGGATACCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTTCAGGGGGTGAT
TGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGTC
CCTACTGTCCCCCATGAGGTTGTGAACCCCTCCCCCAACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTAA
AATCTGTACAGCAAGAGCAACTTTTTCTGTCAAATAAAAAATGAGAAATGCAGG

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FIGURE 4411

ATGCTGCCGGCGGGCTGCTCGCGCCGGTGAGGCCTGCGCGGCAGGAGGGGGTGGGAGGATGCGGGCGGGCCGGTA
GCCAGGCGCGGGGCCCCGAGGCCCGACGCTGGCCGAGGTGCTGAGCCGCCGGTGCGTCCCCCAGGCTGGTGGCCGA
GCTGCAGGGCGCCCTGGACGCCTGCGCACAGCGACAATTGCAATTGGAGCAGAGCCTGCGCGTTTGCCGTCGGCT
GCTGCATGCCTGGGAACCAACTGGGACCCGGGCTTTGAAGCCACCTCCAGGGCCAGAACTAATGGAGAGGACCC
CCTTCCAGCATGCACACCCAGTCCACAAGACCTCAAAGAGTTGGAGTTTCTGACCCAGGCACTGGAGAAGGCTGT
ACGAGTTTGAAGAGGCATCACTAAGGCCGAGAGAGAGACAAGGCCCCCAGCCTGAAATCTAGGTCCATTGTCAC
CTCTTCTGGCACGACAGCCTCCGCCCCACCGCATTCCCCAGGCCAAGCTGGTGGCCATGCTTCAGACACGAGACC
CACCAAGGGCCTCCGCCAGACCACGGTGCCCTGCCAAGGGCCACCCTGAGCGCCGGCTGCTGTCAGTGGGGGATGG
GACCCGTGTTGGGATGGGAGCCCCGAACCCCCAGGCCTGGGGCGGGCCTCAGGGACCAGCAAATGGCCCCATCCGC
TGCTCCTCAGGCCCCAGAAGCCTTCACACTCAAGGAGAAGGGGCACCTGCTGCGGCTGCCTGCGGCATTTCAGGAA
AGCAGCTTCCCAGAACTCGAGCCTGTGGGCCCAGCTCAGTTCCACACAGACCAGTGATTCCACGGATGCCGCCGC
TGCCAAAACCCAGTTTCTCCAGAACATGCAGACAGCTTCAGGCGGGCCCCAGCCCAGGCTCAGTGCTGTGGAGGT
GGAGGCGGAGGCGGGGCGCCTGCGGAAGGCCTGCTCGCTGCTGAGACTGCGCATGAGGGAGGAGCTCTCAGCAGC
CCCCATGGACTGGATGCAGGAGTACCGCTGCCTGCTCACGCTGGAGGGGCTGCAGGCCATGGTGGGCCAGTGTCT
GCACAGGCTGCAGGAGCTGCGTGACGCGGTGGCGGAACAGCCACCAAGACCATGTCCTGTGGGGAGGCCCCCGG
AGCCTCGCCGTCCTGTGGGGGTAGAGCGGAGCCTGCATGGAGCCCCCAGCTGCTTGTCTACTCCAGCACCCAGGA
GCTGCAGACCTGGCGGCCCTCAAGCTGCGAGTGGCTGTGCTGGACCAGCAGATCCACTTGAAAAGGTCCTGAT
GGCTGAACTCCTCCCCCTGGTAAGCGCTGCACAGCCGCAGGGGCCGCCCTGGCTGGCCCTGTGCCGGGCTGTGCA
CAGCCTGCTCTGCGAGGGAGGAGCACGTGTCTTACCATCCTGCGGGATGAACCTGCAGTCTGAGCCTTTCCCAT
GCTGCCCTCGGCCTGTTTCAGATGGGGATTGGGGGTGCTTCCCTGGCACTGTGCTCGGGGACCCAGAGATGCCTG
TGCTTCCCTGGGAAACCTGGTGAACCTGGACCAGGTGGCCTCACTGGCTCTTCTCAGGACAACTAAGCCTGCTGGT
CAGGGCTGGCTTTCAGCCTTCCTAAGGCTCCTGGACTCCAGAGGCCAGCGGGAGCCTTTCCTGGCTCCCTCTGT
TTTCTCTCACTGTAGACCAAAGAGCCGCTTGTGTGATATTAAAGCCACTTTAGAAAGC

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FIGURE 4412

MGARTPRPGAGLRDQQMAPSAAPQAPEAFTLKEKGHLLRLPAAFRKAASQNSSLWAQLSSTQTSDDSTDAAAKTQ
FLQNMQTASGGPQPRLSAVEVEAEAGRLRKACSLRLRMREELSAAPMDWMQEYRCLLTLEGLQAMVGQCLHRLQ
ELRAAVAEQPPRPCFVGRPPGASPCGGRAEPAWSPQLLVYSSTQELQTLAALKLRVAVLDQQIHLEKVLMAELL
PLVSAAQPQGPPWLALCRAVHSLCEGGARVLTILRDEPAV

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FIGURE 4413A

GCAGCGCGGCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCCTTGCGGCCCTGAGGAAGCGAGGAGGCGTCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGCGGCCAGGCCGAGGGACCTCGGGAGCTCGAGCAG
CGGCGGCGGCAAGACCTCTCCCCCTCGGAGGCGGCGGGCGGAGGCGGCGGGAGCGGTGGTGGCCCCCGGGCAC
GGGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTG
TCCCTGGTGGGGGCCCGCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAAGTGC GGCGCCTGGAGGCTGCC
CTGGTGAAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTCGAGCTGCGATGCCTCGAGCTG
GAGGAGATGATGAAGAGCAGGGGTACGAGGAACAGCAAAATTCAGGAAAAAGTGGCGACCTTTTCTGACTCATGTTG
CTGGAGAAGGATGTGAACCCTGGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTACCGGAGACTCACCAG
TTGGCAGAATTAAATGAGAAGAAGATGAAAGACTCCGTGCTGCCCTTTGGCATCAGTGATTCTTACGTAGATGGC
AGCTCTTTTIGATCCTCAGCGTCTGCCCCGAGAAGCTAAACAACAGCTCCTGAGCCTCCCAAACCTTACAGCCTT
GTTGGGAGTCTAGCAGTTCTCGTCAACCAACCCCAAAGCAGAAGAAGAAGAAAAAGAAAGATAGAGGACGC
AGGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTCAGAATCTGAG
TCCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAAACGTAATCTAAGGACAAAAAGCGAAAGCGGTCT
CGAAGTACAACACCAGCCCCCAAGAGCCGCGGGGCCACCGTTCAACTTCTGCTGACTCTGCTTCTCCTCCCGAT
ACTTCCCGCAGTCGGTCTCGAAGTGTGCGAGCTAAAACCTCATACAACCTGCCTTGGCTGGGCGAAGTCCTTCCCT
GCTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGC
CCGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACT
CGACCTAGCCCCCTTCCGGAAAGGAGCAGCACAGGCCAGAAACACCTGCTCCCACTCCGCTCCTTGCTGAGCGA
CATGGCGGCTCCCCACAACCCCTTGCAACCACCCCTTAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCT
CCAACCTCGGGACCGTTACACACCTAAGTCTCCCGAGAACTTCCCCAGTCTTCTTCTCAGAGAGCAGCCCCACA
TCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCCTAAACCTGCTCCAGCTCCAGGG
TCCACCGAGAGATTCTTCTTCTCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACAT
TCTCATACCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCCTAAGAGAGGGCGATCTCGGTCTCGA
ACCCCTACCAAGAGAGGTCAATTCTCGATCCCGATCTCCCAAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGA
AGATCTAGAAGCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACC
CAGAGAAGAGGCGAGGTCTAGGTACAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCT
CGTTCTAGAACACCAGCCCCGCGGGGCGAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACT
CCCACCAGGCGTAGGTCTCGGTCTAGAACACCAGCCCCGAGGGGCGAGGTCTCGGTCTAGAACACCTGCTAGGCGC
AGATCTAGGACCCGATCACAGTACGACGCGAGGTCTCGTAGTAGATCACAGCCAGGAGAGTGGCAGGTACGCG
TCTAGAACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGACGTGGCCGCTCACGCTCTAGAACC
CCAGCTAGACGCAGTGGTCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGA
CGAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGA
TCTGGCTCATCTTCAAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATCAAGCCCAGAA
ATGAAGAAATCTCGCATTCTTCAAGGCGGAGCAGGTCTCTCTTACCACGGTCCAAAGCAAATCTCGCTTG
TCTTTGAGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAACAAAAGTACAGACACCACCCAGGCGCAGTCGC
TCTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCGAGTCGCTCCAGTTCTTCTCGCCACCT
AAACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCATCTCCTCATCTAAAGTGAAATCTGGAACA
CCACCGAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAAAGCCACAGAGACGGAGCTGTTTT
GAATCATCACCTGACCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCCTCCTAGA
GTGAAATCTAGCACACCTCCAGACAGAGCCCATCTAGGTATCATCTCCACAACCCAAAGTGAAGGCAATAATA
TCACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCCAAGTCTAGTAGGGTGACGTCGAGAACAACTCCACGG
CGAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTC
TCACCAGATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAGTCACTCAGGGTCTATTTACCATAACCCAAA
GTAAAGGCCCAAACCTCCACCGGGGCAAGTCTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGAC
TCACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTGTGTCAGGAGTAAATCTAGCACACCACCGGCGAGGAGC
TATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTTACCAGACCACAGATCTGATCTTCAAGT
CCAGAAGTGAGACAGAGTCATTGAGAATCACCATCTCTGTCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCCG
TCCAGGTCTTCTATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCG

FIGURE 4413B

[illegible]

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FIGURE 4413C

CGGCCCATGAGACACCGCTCCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGA
GCCACAAGGAGTGTCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAG
CCCTTGGATGGAGGGCTCCCTTCCCTCCCCTTTTTTTTTTCTTTGTTCTGTGAAATGTTAATCTCCGTGAGTT
CTTCTGGTTCATGTGTTCTGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACA
GTTCAGGATACCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTTCCCAGGGGTGA
TTGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGT
CCCTACTGTCCCCCATGAGTTGTGAACCCCTCCCCCACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTA
AAATCTGTACAGCAAGAGCAACTTTTCTGTCAAATAAAAATGAGAAATGCAGG

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FIGURE 4414

CGACATGGCGCGCGAGCTGCGGGCGCTGCTGCTGTGTTGGGGCCGCCCTGCGGCCTTTGCTGCGGGCGCCGGCGCT
GGCGGCCGTGCCGGGAGGAAAACCAATTCTGTGTCCTCGGAGGACCACAGCCCAGTTGGGCCCCAGGCGAAACCC
AGCCTGGAGCTTGACGGCAGGACGACTGTTTCAGCACGCAGACCGCCGAGGACAAGGAGGAACCCCTGCACTCGAT
TATCAGCAGCACAGAGAGCGTGCAGGGTTCCACTTCCAAACATGAGTTCCAGGCCGAGACAAAGAAGCTTTTGGAA
CATTGTTGCCCGGTCCCTGTACTCAGAAAAAGAGGTGTTTATACGGGAGCTGATCTCCAATGCCAGCGATGCCTT
GGAAAACTGCGTCACAACTGGTGTCTGACGGCCAAGCACTGCCAGAAATGGAGATTCACTTGCAGACCAATGC
CGAGAAAGGCACCATCACCATCCAGGATACTGGTATCGGGATGACACAGGAAGAGCTGGTGTCCAACCTGGGGAC
GATTGCCAGATCGGGGTCAAAGGCCTTCCTGGATGCTCTGCAGAACAGGCTGAGGCCAGCAGCAAGATCATCGG
CCAGTTTGGAGTGGGTTTCTACTCAGCTTTTCATGGTGGCTGACAGAGTGGAGGTCTATTCCCGCTCGGCAGCCCC
GGGGAGCCTGGGTTACCACTGGCTTTCAGATGGTTCGAGAGTGTGAAATCGCCGAAGCTTCGGGAGTTAGAAC
CGGGACAAAAATCATCATCCACCTGAAATCCGACTGCAAGGAGTTTTCAGCGAGGCCCGGGTGCAGATGTGGT
AACGAAGTACAGCAACTTCGTGAGCTTCCCCTTGTACTTGAATGGAAGCGGATGAACACCTTGCAGGCCATCTG
GATGATGGACCCCAAGGATGTGCGTGAGTGGCAACATGAGGAGTTCTACCGCTACGTCGCGCAGGCTCAGACAA
GCCCCGCTACACCTGCACTATAAGACGGACGCACCGCTCAACATCCGCAGCATCTTCTACGTGCCCGACATGAA
ACCGTCCATGTTTGATGTGAGCCGGGAGCTGGGCTCCAGCGTTGCACTGTACAGCCGCAAGTCTCTATCCAGAC
CAAGGCCACGGACATCCTGCCCAAGTGGCTGCGCTTCATCCGAGGTGTGGTGGACAGTGAGGACATTCCCCTGAA
CCTCAGCCGGGAGCTGCTGCAGGAGAGCGCACTCATCAGGAACTCCGGGACGTTTTACAGCAGAGGCTGATCAA
ATTCTTCATTGACCAGAGTAAAAAGATGCTGAGAAGTATGCAAAGTTTTTTGAAGATTACGGCCTGTTTCATGCG
GGAGGGCATTGTGACCGCCACCGAGCAGGAGGTCAAGGAGGACATAGCAAAGCTGCTGCGCTACGAGTCTCGGC
GCTGCCCTCCGGGCAGCTAACCAGCCTCTCAGAATACGCCAGCCGATGCGGGCCGGCACCCGCAACATCTACTA
CCTGTGCGCCCCCAACCGTCACCTGGCAGAGCACTCACCTACTATGAGGCCATGAAGAAGAAAGACACAGAGGT
TCTCTTCTGCTTTGAGCAGTTTGATGAGCTCACCTGCTGCACCTTCGTGAGTTTGACAAGAAGAAGCTGATCTC
TGTGGAGACGGACATAGTCGTGGATCACTACAAGGAGGAGAAGTTTGAGGACAGGTCCCCAGCCGCCGAGTGCCT
ATCAGAGAAGGAGACGGAGGAGCTCATGGCCTGGATGAGAAATGTGCTGGGGTTCGCGTGTACCAACGTGAAGGT
GACCTCCGACTGGACACCCACCTGCCATGGTCACCGTGTGAGATGGGGGCTGCCCGCCACTTCCTGCGCAT
GCAGCAGCTGGCCAAGACCCAGGAGGAGCGCGCACAGCTCCTGCAGCCCACGCTGGAGATCAACCCAGGCACGC
GCTCATCAAGAAGCTGAATCAGCTGCGCGCAAGCGAGCCTGGCCTGGCTCAGCTGCTGGTGGATCAGATATACGA
GAACGCCATGATTGCTGCTGGACTTGTTGACGACCTAGGGCCATGGTGGGCCGCTTGAATGAGCTGCTTGTCAA
GGCCCTGGAGCGACACTGACAGCCAGGGGGCCAGAAGGACTGACACCACAGATGACAGCCCCACCTCCTTGAGCT
TTATTTACCTAAATTTAAAGGTATTTCTTAACCCGAAAAA

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FIGURE 4415

MARELRALLLWGRRLRPLLRAPALAAVPGGKPILCPRRTTAQLGPRRNPAWSLQAGRLFSTQTAEDKEEPLHSII
SSTESVQGSTSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVSQGQALPEMEIHLQTNAE
KGTITIQDTGIGMTQEELVSNLGTIARSGSKAFDALQNQAEASSKIIGQFGVGFYSAFMVADRVEVYSRSAAPG
SLGYQWLSDGSGVFEIAEASGVRTGTKIIHLKSDCKEFSSEARVRDVVTKYSNFVSFFLYLNGRRMNTLQAIWM
MDPKDVGEWQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPDMKPSMFDVSRELGSSVALYSRKVLIQTK
ATDILPKWLRFIRGVVDSEDIPLNLSRELLQESALIRKLRDVLQQRLIKFFIDQSKKDAEKYAKFFEDYGLFMRE
GIVTATEQEVKEDIAKLLRYESSALPSGQLTSLSEYASRMAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDEVL
FCFEQFDELTLHLREFDKKLISVETDIVVDHYKEEFEDRSPAAECLSEKETEELMAWMRNVLGSRVTVNKVT
LRDTHPAMVTVLEMGAARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRASEPGLAQLLVQIYEN
AMIAAGLVDDPRAMVGRLNELLVKALERH

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FIGURE 4416

CGGAATGGAGGAGGTGCCTCACGACTGTCCAGGGGCCGACAGCGCCAGGCGGGCAGAGGGGCTTCATGTCAGGG
ATGCCCCAACCAAGCGGCTGTGCGCTTCTGGAGCGGGGGCCACTCCGGACACGGCTATAGAGGAAATCAAAGAGAA
AATGAAGACTGTAAAACACAAAATCTTGGTATTGTCTGGGAAAGGCGGTGTTGGGAAAAGCACATTACGCGCCCA
CCTTGCCCATGGCCTAGCAGAGGATGAAAACACACAGATTGCTCTTCTAGACATCGATATATGTGGGCCATCGAT
TCCCAAGATAATGGGATTGGAAGGAGAGCAGGTTACACAGAGTGGCTCAGGCTGGTCTCCAGTGTACGTGGAAGA
CAACCTGGGGGTGATGTAGTGGGCTTCCTGCTCAGCAGTCCTGATGATGCTGTTATCTGGAGGGGACCCAAGAA
AAACGGCATGATCAAGCAGTTCTCCGAGATGTGGACTGGGGAGAGGTCGACTACCTCATTGTGGACACCCACC
TGGGACGTCGGATGAACACCTCTCGGTCTGTCGGTACCTGGCCACAGCACACATCGATGGAGCAGTGATCATCAC
CACTCCCCAGGAGCTGTCACTCCAGGATGTCCGGAAGAAATCAACTTCTGCCGCAAGGTGAAGCTGCCCATCAT
CGGGGTGGTGGAGAACATGAGTCCGTTTCATCTGTCCTAAGTGCAAGAAAGAATCTCAGATATTCCTCCCAAC
CGGGGGCGCGAGCTCATGTGCCAGGACTTGGAGGTCCCTCTCCTCGGCAGAGTGCCCTGGATCCGCTCATAGG
TAAGAATTGTGACAAAGGCCAGTCTTTTTTTCATTGACGCCCCAGATTCCCCAGCCACGTTAGCCTACAGAAGTAT
AATTCAGAGAATCCAAGAGTTTGTAACTCCATCAGTCAAAAGAAGAGAACCTCATCAGTTCCTGAAACGAGAG
AATGTTACGACCAAGCAGTTACCGAGCGAGGCACTCACTGGGCAGCACATCCAGCCAGACCCGACCAGCTCCGG
GATGGGGTGGGTCACAGCAAAAGGACCAGATGCTGGTGTGGTCCGAAGCCACTTTCTCAGAGACACTTTAATCAT
TGAGTATTTGTACACTTTTCTTTAGAACATATATAAAGGGCATTCTCTACAAATGTGCCGTTTTAAGAATAAAAC
CCCCTCAAATCTC

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FIGURE 4417

MEEVPHDCPGADSAQAGRGASCQGCPNQRLCASGAGATPDTAIEEIKEKMKTVKHKILVLSGKGGVGKSTFSAHL
AHGLAEDENTQIALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPVYVEDNLGVMSVGFLSSPDDAVIWRGPCKN
GMIKQFLRDVDWGEVDYLIVDTPPGTSDEHLSVVRYLATAHIDGAVIITPQELSLQDVRKEINFCRKVKLP IIG
VVENMSPFICPKCKESQIFPPTTGGAEELMCQDLEVPLLGRVPLDPLIGKNCCKGQSFFIDAPDSPATLAYRSII
QRIQEFCNLHQSKENLISS

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FIGURE 4418

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCGCCTTTTTTGCGGCCCCCATTGTGCTGCTGGA
CCCGACGAGCAGTGTTGACAGTGAACCCACGTAGACGCGGCCCGGTACCGGGGTTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCGCGGGACCCATCGGGCCTTGGGGTTTCGGGAACACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGCAGGAAGCCGTAGCGCCGGTACGTGCCCCCTCTCCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTACAGCATCGGCTCC
GCCCCGAGTCCACCTTCCTCAGGCTCTGATTGGCTGACACATGGCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTTCGGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCCTGACCCCGAGACCAGTGGGCACGTGAGCGACAGAAATGAGGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGGACCAGCTTCTGTGTGATGTGTGTGTGGGAGGGGTGCTGAGGCCGAGTCTAGGACCTGGCCT
CTCCCTGCCCTGCCTCCGTCCATTGTTTTA

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FIGURE 4419

MELSAEYLREKLQRDLEAEHVEVEDTTLNRCSCSFRVLVVSASFEGKPLLQRHRLVNACLAEEELPHIHAFEQKTL
TPDQWARERQK

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FIGURE 4420

GGTAACTTCTTGATGTTGCCGTGGCATTTGTAACTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTATGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTCAGCCTCATTTCCTGGCTCCTATTTAAGATGGAGTTGCTCTGGTTACACACCTCTGA
CATGATCATTGCCACTGCGGCTTCCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCACCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTGTAGAGATGGTGTTCATGTTGCCCA
GGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAGCCCGTGCAATATCAGCGTAAACATTTGCTTTATGCTAAAAATATGGTGGACCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAAATTTATAAGAAAAAGAGGTTTAATGTACTCAGATTCCACAAGGCTGGAGAGGCCTCAGAATCAT
GGTGGAAAGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCACTATCAGGAAACAGTATGGGAAAAACCTGCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCACGACACATGGGGATTATGGGAATAAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCGCAGGTTGTTGTGATTAGCTGTTTCTAACAATTGTTTCATAACAATAATTGTTTCATTATTGTTT
TCAACTTGGGGCTCTCCCCAACCTGGGGACCTTCCCTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTTCATTATCTTCAACACAAATTGTAGGTAGCCTGTTTTTAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCACT
ATTCTTCCACATTCTCTATTATTATACCTATGGTAAATTTGCCAGTTTGACCATACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAAATATACAGGTCTTAAAGGCTGCCCTGCCAACAAAACCATAACGCAGGAACAA
ACATCACAACATATGCCAAATAATCAATCCTACAATGTCCAAATTTTACTTTAAACTGGAATTTCCAGACTTCC
TTTCTGCATTAAACCAGTTTAACTAGACAGTAACGAAATATTCCTACTTTATGCTGTGATAGTTTGTATTATTATT
TATTTATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTGTCAGTGAGCCAGGATCATGCCATTGCACTCCA
GCCTGGTCAACGGAGCGAGACTCCGCCTCATTAAAAA

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FIGURE 4421

ATCTTGCTTTCCTTTAATCCGGCAGTGACCGTGTGTGTCAGAAATCTTGAATCATGAAGCTACTAACCAGAGCCG
GCTCTTTCGAGATTTTATTCCCTCAAAGTTGCCCCAAAGTTAAAGCCACAGCTGCGCCTGCAGGAGCACCGC
CACAACTCAGGACCTTGAGTTTACCAAGTTACCAATGGCTTGGTGATTGCTTCTTTGGAAAACTATTCTCCTG
TATCAAGAATTGGTTTGTTCATTAAAGCAGGCAGTAGATATGAGGACTTCAGCAATTTAGGAACCACTTTC
TGCGTCTTACATCCAGTCTGACGACAAAAGGAGCTTCATCTTTCAAGATAACCCGTGGAATTGAAGCAGTTGGTG
GCAAATTAAGTGTGACCGCAACAAGGGAAAACATGGCTTATACTGTGGAATGCCTGCGGGGTGATGTTGATATTC
TAATGGAGTTCTGCTCAATGTCACCACAGCACCAGAATTCGTGCTGGGAAGTAGCTGACCTTCAGCCTCAGC
TAAAGATTGACAAAGCTGTGGCCTTTTCAATCCGAGACTCATGTCAATTGAAAATTTGCATGCAGCAGCTTACC
AGAATGCCTTGGCTAATCCCTTGTATTGTCTGACTATAGGATTGGAAAAGTGACATCAGAGGAGTTACATTACT
TCGTTTCAAGCAATTTTCAAGTGCAAGAAATGGCTTTGATTGGACTTGGTGTGAGTCATCTGTTCTAAAGCAAG
TTGCTGAACAGTTTCTCAACATGAGGGGTGGGCTTGGTTTATCTGGTGCAAAGGCCAACTACCGTGGAGGTGAAA
TCCGAGAACAGAATGGAGACAGTCTTGTCCATGCTGCTTTTGTAGCAGAAAGTGCTGTGCGGGGAAGTGACAGG
CAAATGCATTTAGTGTCTTTCAGCATGTCTCGGTGCTGGGCCACATGTCAAGAGGGGCAGCAACACCACCAGCC
ATCTGCACCAGGCTGTTGCCAAGGCAACTCAGCAGCCATTTGATGTTTTCTGCATTTAATGCCAGTTACTCAGATT
CTGGACTCTTTGGGATTTATACTATCTCCCAGGCCACAGCTGCTGGAGATGTTATCAAGGCTGCCATATAATCAAG
TAAAAAGAATAGCTCAAGGAAACCTTTCCAACACAGATGTCCAAGCTGCCAAGAACAAGCTGAAAGCTGGATACC
TAATGTCAGTGGAGTCTTCTGAGTGTTCCTGGAAGAAGTCGGGTCCCAGGCTCTAGTTGCTGGTTCTTACATGC
CACCATCCACAGTCCCTTCAGCAGATTGATTCAAGTGGCTAATGCTGATATCATAAATGCGGCAAGAAGTTTGT
CTGGCCAGAAGTCAATGGCAGCAAGTGGAAATTTGGGACATACACCTTTTGTGATGAGTTGTAACTACTGATGCA
CACATTACAGGAGAGAGCTGAACGTTCTCTCACCAGAGCAGCAAAACACATGAAAGTCAGAAGTCTCTAATATAT
CATTTGCTTTTTTCCAGTGAGGTAAAATAAGGCATAAATGCAGGTAATTATTCCCAGCTGACCTAAAGTCAATA
AAACATTCTGTTT

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FIGURE 4422

MKLLTRAGSFSRFYSLKVAPKVKATAAPAGAPPQPDLEFTKLPNGLVIASLENYSPVSRIGLFIKAGSRYEDFS
NLGTTHLLRLTSSLTTKGASSFKITRGIEAVGGKLSVTATRENMAYTVECLRGDVDILMEFLLNVTTAPEFRRWE
VADLQPQLKIDKAVAFQNPQTHVIENLHAAAYQNALANPLYCPDYRIGKVTSEELHYFVQNHFTSARMALIGLV
SHPVLKQVAEQFLNMRGGLGLSGAKANYRGGEIREQNGDSLHAAAFVAESAVAGSAEANAFSVLQHVLGAGPHVK
RGSNTTSHLHQAVAKATQQPFVSAFNASYSDSGLFGIYTISQATAAGDVIKAAYNQVKRIAQGNLSNTDVQAAK
NKLKAGYLMVESSECFLEEVGSQALVAGSYMPPSTVLQQIDSVANADIINAACKFVSGQKSMAASGNLGHTPFV
DEL

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FIGURE 4423

AGTCCTCTTCGGGTGATGGCGGCGGGTGCCCCGGATGTAGCCCTGGCGCAAGCATCTCTTCTTTTTTCCACCTC
GCCTTCCGCGGATTCCCAGCTTGAGAAACACCTCTTTGCCCGGTCATGCCAAAGAGGAAAGTGACCTTCCAAGGC
GTGGGAGATGAGGAGGATGAGGATGAAATCATTGTCCCCAAGAAGAAGCTGGTGGACCCTGTGGCTGGGTTCAGGG
GGTCCTGGGAGCCGCTTTAAAGGCAAACACTCTTTGGATAGCGATGAGGAGGAGGATGATGATGATGGGGGGTCC
AGCAAATATGACATCTTGGCCTCAGAGGATGTAGAAGGTCAGGAGGCAGCCACACTCCCCAGCGAGGGGGGTGTT
CGGATCACACCCTTTAACCTGCAGGAGGAGATGGAGGAAGGCCACTTTGATGCCGATGGCAACTACTTCTGAAC
CGGGATGCTCAGATCCGAGACAGCTGGCTGGACAACATTGACTGGGTGAAGATCCGGGAGCGGCCACCTGGCCAG
CGCCAGGCCTCAGACTCGGAGGAGGAGGACAGCTTGGGCCAGACCTCAATGAGTGCCCAAGCCCTCTTGAGGGGA
CTTTTGAGCTCCTATTGCCTAGAGAGACAGTGGCTGGGGCACTGAGGCGTCTGGGGGCCGAGGAGGAGGCAAA
GGGAGAAAGGGGCTGGGCAACCCAGTTCCCCCTCAGCGCCTGGACCGGCTCTCCGGGTGGCCGACCAGATGGTG
GCCCCGGGCAACCTTGGTGTGTACCAGGAAACAAGGGAACGGTTGGCTATGCGTCTGAAGGGTTGGGGTGTGAG
ACCCTAGGACCCCAACAATCCCACACCCCCACCCTCCCTGGACATGTTTCGCTGAGGAGTTGGCGGAGGAGGAAGT
GAGACCCCAACCCCTACCCAGAGAGGAGAAGCAGAGTCGCGGGGAGATGGTCTGGTGGATGTGATGTGGGAATAT
AAGTGGGAGAACACGGGGGATGCCGAGCTGTATGGGCCCTTACCAGCGCCAGATGCAGACCTGGGTGAGTGAA
GGCTACTTCCCGGACGGTGTTTATTGCCGGAAGCTGGACCCCCCTGGTGGTCAGTTCTACAACGCCAACGCATT
GACTTTGACCTCTACACCTGAGCCTGCTGGGGGCCAGTTTGGTGGGCCCTTCTTCTGACTTTGTGGAGGAG
GCACCAAGTGTCTCAGGCAGCGAGGAAATTGGAGGCCATTTTTCAGTCAATTTCCCTTTCCCAATAAAAGCCTT
AGTTGTGTAAAAA\AAAAAAAAA

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FIGURE 4424

MPKRKVTFGVGDEEDEDEIIVPKKKLVDPVAGSGGPGSRFKGKHS LDSDEEEEDDDGGSSKYDILASEDVEGQE
AATLPSEGGVRITPFNLQEEMEEGHFDADGNYFLNRDAQIRDSWLDNIDWVKIRERPPGQRQASDSEEDSLGQT
SMSAQALLEGLELLELLLPRET VAGALRR LGARGGGKGRKGPQPSSPQRLDRLSGLADQMVARGNLGVYQETRERL
AMRLKGLGCQTLGPHNPTPPPSLDMFAEELAELEELETPTPTQGEAESRGDGLVDVMWEYKWENTGDAELYGPFT
SAQMQTWVSEGYFPDGVYCRKLDPPGGQFYNSKRIDFDLYT

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FIGURE 4425

AAACAGGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGCAGTGCCAAGGACAAGAGGTT
TGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAAGATTTCGTGATGTCACCAAGTGCCTGGAAGA
GTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGTGGACAAAGAAGGTGTCCCCGGTTCTATAT
CCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAA
GAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAAATACAACCGTGATTTGAGTCCCATATCAC
AAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTGAGAAGGCTCTTC
AGATGAGGATGAGGATGAGGACGGAGTCAGTGTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGA
GAGTCGCAAGTTCCTCAAAAAGATGGATGATGAAGATGAGGACTCAGAAGATTCCGAAGATGATGAAGACTGGGA
CACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGGGAACAAACCGCGCTGGCCTCAAGATTTCT
TAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCA
CGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGAAGGCGGGGAGTGGGAAAGGGTCCGGGGCGG
AGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAGTGAAGTACCCATGCTGTTGTTATCAAGAA
ACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAAGTATGCTGCTGCCAGATTGAGCTGTGCAACTGCT
GGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGTCAAGATCAAGTTCAATATCATCGCCTCTCT
CTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGA
GCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCA
CAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCTGGTGGAACGAATGGATGAAGAATTTACCAA
AATAATGCAAAATACTGACCTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCAGGTGTGTGCCAT
CATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGCATCTACCTGCTGCGCAT
CCTGCACACCTACTACAAGTTTGATTACAAGGCCATCAGCGACAGCTGACCCCGCTGAGGGCTCCTCAAAGGT
GAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCC
AAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGC

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FIGURE 4426

GGCCCTGCGGTGTGACTCGCGGGCTCAGCTGGTTGGTATTTTTTGGGCCTCGTGCTTCGTGGTGGGAGACCCAGG
TCGAGGTCCGGCCGTAGCACCTCCGCGCCGTGCGCCATGTCGCGGTTTTTACCACCGGTTCCGACAGCGAGTCCG
AGTCGTCTTGTCCGGGGAGGAGCTCGTCCACAAACCTGTGCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGA
GCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTA
TCCGGACCATCCGTAATGCCATGAAGATTCTGTATGTACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAG
CATATGGGAAGGCCAAAAGCATTGTGGACAAAGAAGGTGTCCCCGGTTCTATATCCGCATCCTGGCTGACCTAG
AGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGA
GCACCTTGGCTCAGAAGATCCGAAAATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCG
AGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGG
ACGGAGTCACTGCTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTTCTCAAAA
AGATGGATGATGAAGATGAGGACTCAGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCG
ATTCCGACTCAGAGGAGGAAGAGGGGAAACAACCCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAG
ATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCC
TGGATGAGGAGGAGGAGGACAAATGAAGCGGGGAGTGGAAGGGTCTGGGGCGGAGTGCCGTTGGTTAAGGAGA
AGCCAAAAATGTTTGCCAAGGGAAGTGAATCACCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGG
CACGAGGCAAGAAGGGAAGTATCGTGCTGCCAGATTGAGCTGCTGCAACTGCTGGTTGAGATTGACGCGGAAA
ACAACCTGGGAGAGGGCGTCAATTGTCAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACC
TGCCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTG
CAATCCCAACATTTTTGTTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGC
GTGTCCGTGGCTGCATCCTAACTCTGGTGGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACC
CTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCT
ACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGATCTACCTGCTGCGCATCTTGACACCTACTACAAGT
TTGATTACAAGGCCCATCAGCGACAGCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAA
ATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGA
TCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCA
TGCTCATGAGCCACTTGAGGACAACATTGAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGG
TGAGCTGGGCATCTGTGCCTTCCGCCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGA
GTGGCCGAGCCAAGGAGCTTCTGGGCCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGA
AGGTGGAGCGGCGCCGTGAGGTCCCTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGT
CTGCCATGCTCCTGGAGATCCCTACATGGCCGCCATGAGAGCGATGCCCGCCGACGATGATCAGCAAGCAGT
TCCACCACCAGCTGCGCGTGGGCGAGCGACAGCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTGC
CTGCCTCCAAGGCCATGAAGATGGGTGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGA
AAGTGTGGGACCTTTTCCCGAGGCTGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGA
GGACCTACCTCTTACCTACAGCAGTGTCTATGACTCCATCAGCATGGAGACGCTGTGAGACATGTTTGAGCTGG
ATCTGCCCCTGTGCACTCCATCATCAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAA
CACAGACAGTGGTGTGACCGCACTGAGCCCACTGCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGG
GCAGCCTGGTGGAGAACCAACGAACGGGTGTTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGA
AGGACGGCTACCGCAAAAACGAGGGCTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCCTACT
GAGCTCTCACTCTGTTTCCCGCCTGGGCCATCCAACCTTGAAGTCTTAAACCACACCTCAGTCACTAAAGGTCT
GTTTAAAGTTGTTCTGGTTGATTGCTTGTGCCACAAAGGTGTGTTGAGCCCATTCATTGCTGATTATATTTCT
GAGCTGCTACCACATGACAGACACAAGGCTCAGATGAAGAGGTGAATTGAACAGTTCTCTGACCTC

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FIGURE 4427A

AGAGGAGCTTCTTAATAACTTTGCCAGCAAATAGGAGCCTGGAGATTCTGCCTGTACTTTCTCTCCAGCACTAG
GAATGACTATGTAATGATGTACAGTTTAACAGTTTTTGAGAATCTGATCAATAAAATGTGGCTTGGGGTCCCATC
TCAGGATAAGATGGAAATCCGTAGCTGTCTGCCAAACTCCTTTTGGCTCACCATAAAACCTTACCTTACTTTAT
CCGGAACAAGCTCTGCAAAGTTATTGTTGATATTGGACGTCAGGATTGGCCCATGTTCTACCACGACTTTTTTAC
TAACATTTTACAGTTGATCCAGTCCCCTGTGACAACCCCTTGGGCTGATCATGTTGAAGACAACCTCAGAAGA
GCTGGCTTGTCCCGTGAGGACCTCAGTGTGGCTCGCAAGGAGGAGTTGCGGAAGCTGCTACTGGACCAGGTGCA
GACAGTGCTTGGGCTACTGACAGGTATCTTGGAGACTGTCTGGGACAAACACAGTGTTACTGCTGCCACTCCACC
ACCATCCCCGACCTCAGGAGAAAGTGGTGACTTACTGAGTAACCTGTTGCAGAGTCCCAGTTTCAGCCAACTGTT
GAATCAGCCAATTCCCATCCTTGATGTGGAGAGTGAGTATATCTGTTCCCTGGCTTTGGAGTGCCTGGCCCATCT
CTTCAGTTGGATTCTCTGTCTGCCAGCATCACCCCATCCCTCCTTACCACCATCTTCCACTTTGCACGATTGG
CTGTGACATCCGGGCCAGAAAGATGGCGTCAGTTAACGGCAGCAGCCAGAAGTGTGTCTCGGGTCAGGAGCGCGG
CCGGCTGGGGTCTTGGCCATGTCTGCATCAATGAAGTCAATGTCCAAGAACTGTGTGCCTATGGAATTTGAGGA
GTATTTACTGCGTATGTTCCAGCAGACTTCTACCTCCTGCAGAAAATCACCAAGGATAACAATGCCACACAGT
GAAGAGCAGGCTAGAAGAGCTCGATGAGAGCTATATCGAGAAGTTTACTGACTTTCTTCGGCTCTTTGTGAGTGT
TCACCTAAGAAGAATCGAGTCTTACTCCAGTTCCCTGTGGTGGAGTTTTTGACACTTTTGTTCAGTACACATT
TCATCAGCCTACTCATGAAGGTTACTTCTCTTGTGTTGGATATCTGGACGCTGTTTTTGGACTATCTGACAAGTAA
AATTAAGAGTCGTCTTGGAGACAAGGAAGCAGTTCTCAACAGGTACGAAGATGCCCTGGTGCTCCTGCTCACAGA
GGTGTGAATCGAATCCAGTTCAGATACAACCAAGCCAGCTGGAGGAGTTGGATGATGAGACTCTGGATGACGA
TCAGCAGACGGAGTGGCAGCGGTACTTACGGCAGAGCTTGGAGGTGGTGGCCAAAGTGATGGAGCTCCTGCCAC
GCACGCTTCTCCACACTGTTCCCTGTTCTTCAGGACAATTTAGAAGTTTATTTGGGATTACAACAGTTTATAGT
CACTTCAGGGTCAGGACACAGGTTGAACATCACGGCGGAGAACGACTGCCGGCGGCTGCACTGCTCCCTGAGAGA
CTTGAGCTCCCTGCTGCAGGCCGTGGGCGCCTGGCCGAGTACTTTATCGGGGATGTGTTTGTGTCACGGTTCAA
TGATGCCCTCACAGTCGTGGAAAGGTTGGTCAAAGTCACTCTGTACGGATCTCAGATAAAATTGTACAACATTGA
AACTGCTGTGCCATCAGTATTGAAACCTGACCTCATTGATGTGCATGCTCAGTCCCTGGCTGCGCTGCAGGCTTA
CTCTCACTGGTTAGCACAGTATTGCAGTGAAGTTCACCGGCAGAACACGCAGCAGTTTCGTGACACTCATCTTAC
TACCATGGATGCAATCACACCTCTAATCAGCACCAAGGTCCAAGACAAGCTGCTGCTATCTGCGTGCCACTTACT
GGTCTCACTGGCCACCACCGTGCGGCCCTCTTTCTGATCAGCATCCCTGCAGTGCAGAAAGTATTCAACAGAAT
CACTGATGCCCTCTGCCCTGCGACTTGTGATAAGGCCAGGTGTTGGTGTGCCGAGCCCTCTTAACATCTTGCT
GCTTCCGTGGCCAAACCTTCCAGAGAATGAGCAGCAGTGGCCCGTGCGCTCCATCAACCACGCCAGCCTCATCTC
TGCACTCTCCCGGACTATCGCAACCTGAAGCCAGTGCTGTTGCCCCACAGAGAAAGATGCCACTGGATGACAC
CAAAGTATTATCCACCAGACACTCAGCGTCTTAGAAGATATTGTGGAGAATATCTCGGGGAGTCCACCAAGTC
TCGACAGATTTGCTACCACTGCTGCAGGAATCTGTTCAAGTCTCCCTGGCCCTCTTTCCAGCTTTTATCCATCA
GTCAGATGTGACTGATGAGATGCTGAGCTTCTTCTCACTCTGTTTCGAGGCCTTAGAGTACAGATGGGTGTGCC
TTTCACTGAGCAAATCATAAGACTTTCCTCAACATGTTTACCAGAGAGCAGTTAGCCGAGAGCATCCTCCACGA
GGGAGCAGAGGCTGCCGGGTGGTGGAGAAGTTTCTGAAGATCCTGCAGGTGGTGGTCCAGGAGCCAGGCCAGGT
GTTCAAGCCCTTCTCCCCAGCATCATCGCCCTGTGCAAGGAGCAAGTGTATCCCATCATTGCCGAGCGTCCCTC
CCCTGATGTGAAGGCCGAGCTGTTTGAGCTCCTTTTCCGGACGCTCCATCACAACTGGAGGTACTTCTTCAAGTC
CACCGTGTGGCCAGTGTCCAGAGGGGGATCGCTGAGGAGCAGATGGAGAATGAGCCCCAGTTTCAGTGCCATCAT
GCAGGCTTTCGGACAGTCCCTTCTCCAGCCGACATCCACCTTTTAAACAAAATCTCTTCTACTTGGAGACTCT
CAACACCAAGCAGAAGCTGTACCACAAGAAGATCTTCCGGACTGCCATGCTGTTCCAGTTTGTGAACGTGCTGCT
CCAGGTCTGGTCCACAAGTCCCATGATCTTCTGCAGGAGGAGATTGGCATCGCCATCTACAACATGGCCTCAGT
CGACTTTGATGGCTTCTTTGCCGCTTCTTCCAGAGTTCTTGACCAGCTGTGATGGTGTGGATGCCAACAGAA
AAGTGTGTGGGGCGGAATTTCAAGATGGATCGGGACCTGCCCTCATTACCCAGAATGTGCACAGGCTGGTCAA
CGACCTGCGCTACTACAGACTCTGCAACGACAGCCTGCCCTTGGCACTGTGAAGCTCTAGGCTGCTACTGCT
GGGACACGGAATCTGCTGCTGCCACCTGCGCCAGCCCTACCTTCCACCACAGATGTCTCCAGATGGGCTTG
GTCACACTCCTTGGCTTCTCCACCGCAAGCAACGCTGCCTGCCTCTGCCGCTCCTCCACATCTTGCCGCTGCC
AGCAGAGCTGGCTTCTGGGTCCACCTGAGCACTGGACGGTGTCTCCAGGGCGTTGGAGCAGGCGGAGGGGTGTG
GGCCAGGTACTAGGAGGCACCAAGAAATCCCGGGGGTGGCCCATGCAGACCAGGCGCACGTGGCTCATGGGGCA

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FIGURE 4427B

GAATTGCCAAGGACAGCTCAGACAGTGCCACCTTCTCACCATTCCAGCCAAGGAGAGATGTGACGTTGGAAGT
CTCTGGCACTTCTGTCAAGCCTCCCCGCCCCAATTGCCTTGAGATCTCTGCTCTTTGTCAGAGATTGCAAAGA
CTCACGTTTTTGTGTTTTCTCATCATTCCATTGTGATACTAAGAACTAAGAAGCTTAATGAAAAGAAATAAAA
TGCCTATGTTGTTGTTCTAG

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FIGURE 4428

MMYSLTVFENLINKMWLGVP SQDKMEIRSCLPKLLLAHHKTLPHYFIRNKLCKVIVDIGRQDWPMFYHDFFTNIIQ
LIQSPVTTPLGLIMLKTTSEELACPREDL S VARKEELRKLLLDQVQTVLGLLTGILETVWDKHSVTAATPPPSPT
SGESGDLLSNLLQSPSSAKLLNQPIPI LDVESEYICSLALECLAHLSWIPLSASITPSLLTTIFHFARFGCDIR
ARKMASVNGSSQNCVSGQERGLGVLAMSCINELMSKNCVPMEFEEYLLRMFQQTFYLLQKITKDNNHAHTVKSRL
EELDESYIEKFTDFLRFLFVSVHLRRIESYSQFPVVEFLTLLFKYTFHQPTHEGYFSCLDIWTFLDYLTSTIKSR
LGDKEAVLNRYEDALVLLLLTEVLNRIQFRYNQAQLEELDDDETLDLDDQQT EWQRYLRQSLEVVAKVMELLPTHAFS
TLFPVLQDNLEVYLGLOQFIVTSGSGHRLNITAENDCRR LHCSLRDLSSLLQAVGR LAEYFIGDVFAARFNDALT
VVERLVKVTLYGSQIKLYNIETAVPSVLKPD LIDVHAQSLAALQAYSHWLAQYCSEVHRQNTQQFVTLISTTMDA
ITPLISTKVQDKLLLSACHLLVSLATTVRPVFLISIPAVQKVFNRI TDASALRLVDKAQVLVCRALSNI LLLPWP
NLPENEQQWPVRSINHASLISALSRDYRNLPKPSAVAPQRKMPLDDTKLIIHQTL SVLEDIVENISGESTKSRQIC
YQSLQESVQVSLALFP AFIHQSDVTDEMLSFFLT LFRGLRVQMGPVFPTEQIIQTFLNMFTREQLAESILHEGSTG
CRVVEKFLKILQVVVQEPGQVFKPFLPSIIALCMEQVYPIIAERPSPDVKAELFELLFRTLHNNWRYFFKSTVLA
SVQRGIAEEQ MENEPQFS AIMQAFGQSFLQPD IHLFKQNLFYLET LNTKQKLYHKKIFRTAMLFQFVNVL LQVLV
HKSHDLLQEEIGIAIYNMASVDFDGFFAAFLPEFLTSCDGV DANQKSVLGRNFKMDRDLPSFTQNVHRLVNDLRY
YRLCNDSLPPGTVKL

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FIGURE 4429

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTGCGCATGTGCGGGTTTTTACCACCGGTTGCGACAGCGAGTCCGAGTCGTCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTGCGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCCTCAGAAGATCCGAAA
ATACAACCGTGATTTGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTTCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCAGCAGGAAATCCAAGCGCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGTCGCGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTGAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAATCT
GGTGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTACAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTACAGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTTCGCTGCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGAGCATGTTTGAGCTGGATCTGCCACTGTGCACTCCATCAT
CAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 4430A

ATGGACCAAGGCCCTTGGCGGTGCGTTGCGCATGCGCCCCGGGCGCCGCCGACTGAAGTAGCAATGGACGCGCTG
GAGTCGTTGTTGGACGAAGTCGCTCTGGAGGGGCTCGATGGCCTGTGTCTGCCAGCGCTGTGGAGCCGGCTGGAG
ACGCGAGTGCCGCCCTTCCCGCTGCCCTTGGAAACCCTGCACGCAGGAGTTCTCTGGCGGGCCCTCGCCACGCAC
CCGGGCATCAGCTTCTATGAGGAGCTCGGGAGCGACCCGACCTACAGCTCCAGGACCGGTATGAAGAAATTGAT
TTGGAAACTGGAATTTTGGAGTCTAGGAGGGACCCGGTGGCTTTGGAGGATGTCTACCCCAATTCATATGATCTTA
GAGAATAAGGATGGCATCCAGGGCTCATGCCGCTACTTTAAGGAGAGGAAAAACATTACCAATGACATCAGAACC
AAGTCCTTGACGCTCGCTGTACAATGGTGGAAAGCCTTTGACAGGTGGGGGAAGAACTGATCATCGTTGCCCTCC
CAGGCCATGCGGTACAGGGCCTTGATAGGCCAGGAGGGGGATCCCCGACCTGAAGCTGCCCGACTTCTCTACTGC
ATCCTGGAACGGCTAGGCCGGTCCAGGTGGCAAGGGGAGCTCCAGCGAGACCTTCACACCACTGCTTTCAAGGTT
GATGCTGGGAAGCTGCACTATCACAGAAAAATTTGAACAAAAACGGGCTGATTACAATGCAGTCCCATGTGATC
CGATTACCACTGGAGCCAGCAACACTCAATCCTCCTCTACTGAACCGGTTTCATGTGGACAGGAGGAGCAAA
TACGACATCCTCATGGAGAAGCTTTCGGTCATGCTGAGCACACGGACTAACCACATAGAGACGCTGGGAAAGCTG
AGGGAAGAGCTGGGGCTGTGCGAAAGGACGTTTAAGCGTCTGTACCAGTATATGCTGAACGCCGGGCTAGCCAAG
GTGGTGTCTCTTCGCTTGCAAGAGATCCACCCTGAATGTGGACCTTGTAAGACAAAGAAAGGGACCGACGTCATG
GTTCCGTGCCCTCAAGCTGCTGAAGGAATTTAAACGGAATGACCATGATGATGACGAGGACGAGGAGGTTCATCTCC
AAGACAGTGCCTCCAGTGGACATTGTGTTCGAGCGGGATATGCTCACACAGACCTACGACCTCATTGAGCGCAGA
GGCAGCAAAGGAATTTCCCAAGCTGAAATCCGAGTGGCTATGAATGTGGGAAACTAGAAGCAAGAATGCTGTGC
CGACTTCTCAAAGATTCAAAGTTGTCAAGGGATTTCATGGAAGACGAAGGTCGGCAGCGAACCACCAAGTACATT
TCCTGCGTGTTCGAGAGGAGAGCGACCTAAGCCGGCAGTACCAAAGAGAGAAGGCCCGCAGCGAGCTCTTGACC
ACCGTGAGCCTGGCGTCTATGCAGGAGGAGTCGCTTCTGCCTGAAGGCGAGGACACCTTCCTCTCTGAGTCGGAC
AGTGAGGAGGAGAGGAGCAGCAGCAAGCGGAGAGGCAGAGGGTCCCAGAAAGACACAAGAGCCTCTGCAACCTC
CGGCCCCAAGACCCAGCCTCATCACTCCACCCCAACCAAGGGTGGGTGGAAAGTTGTAAACCTACACCCATTGAAA
AAGCAGCCGCCCTCCTTCCAGGAGCTGCTGAAGAGAGAGCCTGCCAGAGCCTTGCCAGCAGGGACAGCCTCTTA
GATACCAGCAGCGTCTCAGAACCCAACGTGTCTTTGTCTCCCACTGTGCGGACAGCAACAGTGGTGACATAGCT
GTGATCGAGGAGGTCCGGATGGAAAACCCAAAGGAGAGTAGCAGTTCCCTGAAGACTGGGAGGCACAGCTCAGGC
CAAGACAAACCACACGAACTTACCGACTGCTGAAACGCAGGAATCTGATCATAGAAGCTGTACCAATCTTCGC
TTAATCGAGAGTTTATTACGATTTCAGAAGATGATCATGGATCAGGAGAAGCAGGAAGGCGTGTCCACCAAGTGC
TGCAAGAAGTCCATTGTCCGCTTGGTGCGGAACCTGTCTGAGGAAGGTCTCTTGCGATTGTATCGGACCACTGTC
ATTCAAGATGGCATCAAGAAGAAGGTGGATCTGGTGGTGACCCCGTCCATGGACCAGAACGACCCCTTAGTGAGA
AGTGCCATCGAGCAGGTCCGCTTCCGGATCTCCAATTCAAGCACAGCCAACAGGGTTAAACTTCCAGCCTCCA
GTGCCCCAAGGGGAGGCAGAGAAGACAGTCAAGGAAAAGAGGGCCCAAGTGGATCAGGGGACTCTCAGCTGAGT
GCTTCTCTAGATCAGAAAGTGGACGGATGAAAAAAGTGATAATAAAATGGGCATAACCCCGCTTAGAAATTAT
CACCCCATTTGATGTTCCCGGACTGGGGCGTTCTCTAGGATTTCTGCCCAAATGCCTCGCCTGCGGGTGGTCCAC
ATGTTTCTGTGGTACCTCATCTACGGGCACCCCTGCCAGCAACACCGTGGAGAAGCCAAGCTTCATCAGTGAACGG
AGAACGATAAAGCAGGAGTCAGGCAGGGCAGGCGTCCGGCCGTCTCCTCTGGAAGTGCTGGGAGGCCTGCTCT
GAAGCCCCATCTAAAGGCAGCCAAGATGGTGTACCTGGGAGGCTGAAGTGGAGCTTGCCACGGAGACAGTGTAT
GTCGACGATGCCCTCGTGGATGCGCTACATCCCCCAATCCCAGTCCACAGGGACTTCGGCTTTGGCTGGGCTCTC
GTCAGCGACATCCTCCTCTGCCTTCCCCCTCTCCATCTTCATCCAGATTGTGCAAGTCAGCTACAAGTGGACAAC
CTGGAGGAATTTCTGAACGACCCGCTGAAGAAGCACAGCTGATCCGCTTTCTCCCCAGGCCATTCCGGCAGCAG
CTTCTGTACAAGAGGCGTTACATTTTTTCCGGTGGTGGAGAACCTTCAGAGGCTGTGCTACATGGGGCTGCTACAG
TTTGGTCCCACGGAAAAGTTTCAGGATAAAGATCAGGTCTTTATCTTCTTGAAGAAGATGCAGTCATTGTTGAC
ACTACCATCTGCACCCACATTACAACCTGGCCCGCAGCAGCCGGCCCTTCGAGAGGCGCCTCTATGTCCTGAAC
TCAATGCAGGATGTGGAACACTTGGTTTGACCTGCAGTGCCTCTGCCCTCAACACCCCACTAGGCGTGGTGCGC
TGCCCCGCGCTCAGGAAGAACAGCAGCACAGACCAGGGCAGCGACGAGGAGGGCAGCCTGCAGAAGGAGCAGGAG
AGCGCCATGGACAAGCACAACCTGGAGCGCAAGTGCGCCATGCTGGAGTACACCACTGGAAGCCGTGAGTGGTG
GATGAAGGCTTGATCCCTGGAGATGGGCTGGGTGCCGAGGGCTCGATTCCAGCTTCTACGGACACCTCAAGCGC
AACTGGATCTGGACCAGCTACATCATCAACAGGCCAAAAAGGAGAACACTGCCGAGAGAATGGAATCAAGTG
AGGCTCCAGACATTTCTGTCCAAGCGCCCAATGCCCTCAGTGCCAGAGGCAACAGCAGGTGAATATTTGGGGG

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FIGURE 4430B

GAAGCAAGAGTAGGCTCCGAGCTCTGTGCTGGCTGGGAAGAGCAGTTTGAGGTGGACCGAGAGCCCCTCGCTGGAC
CGAAACCGGAGAGTGAGGGGTGGGAAAAGCCAGAAGCGGAAGCGGCTGAAGAAGGACCCTGGGAAGAAGATCAAG
AGAAAGAAGAAAGGAGAGTTCCAGGAGAAAAAGCAAAAGGCTGCGCTACCATGATGAAGCCGACCAGAGTGCC
CTGCAGCGGATGACGCGGCTTCGTGTACCTGGTCTATGCAGGAGGATGGGCTGCTTGTGCTGTGCCGATTGCC
AGCAATGTCTCAACACCAAGGTGAAGGGCCCATTTGTACCTGGCAGGTGGTACGGGACATTTTGCAITGCCACG
TTTGAAGAGTCTTTGGATAAAACATCTCATTCCGTTGGACGAAGAGCTCGCTACATAGTCAAAAACCCACAGGCC
TATCTCAACTATAAAGTGTGCTGGCCGAGGTGTACCAGGATAAAGCACTTGTGGAGATTTTCATGAATCGAAGA
GGTGACTATGATGACCCAAAGGTTTGTGCCAACGAGTTTAAAGAATTTGTGGAGAAGCTTAAAGAAAAGTTTCACT
TCAGCCCTAAGGAATTTCTAACCTTGAAATCCAGACACACTCCAGGAGCTGTTGCCAGGTACCGAGTTTTGGCA
ATTGGGGATGAAAAAGATCAAACCAGGAAGAGGATGAACCTAACAGCGTGGATGACATCCACITTTCTGGTGCTT
CAGAACCTGATCCAGAGCACGCTGGCCCTCTCAGACAGTCAGATGAAGTCTTACCAGTCATTCCAGACTTTCCGC
CTCTATCGGGAGTACAAGGACCACGTTCTTGTGAAGGCCTTCATGGAGTGCCAGAAGAGGAGCTTGGTCAACCGG
CGCCGGGTCAACCACACGCTGGGCCCCAAGAAGAACCAGGGCCCTCCCTTCGTGCCAATGTCTTACCAGCTATCC
CAGACCTACTACAGGATTTTACGTGGCGATTTCGAAGCACCATTCTGCACGGAGTCATTCCAGTTTTTGGACAGA
ATGCGGGCTGCCGGCAAGTTGGACCAGCCTGATCGTTTCTCTTCAAAGACCAGGATAATAACGAGCCCAACAAAC
GACATGGTGGCCTTTTACTGGACGGCCCTGGAGGAAATGTGTGGCCGCTCCTGACCTCTTCTCTTGGGCCTC
ATTTCTGTGGATGTCAGGATCCCGGAGCAGATCATCGTGGTAGACAGCTCAATGGTGGAGAAAGAGGTTCATCAA
AGCTTGGGGAAGGACGGCAGCTGGAGGATGACGAGGATGAAGAGGATGACTTGGACGAAGGTGTAGGGGGCAAG
CGCCGGAGCATGGAGGTGAACCTGCGCAAGCCTCCACACCAACTACCTGCTGATGAGGGGCTACTACTCCCC
GGCATCGTCAGACCCGCAACCTCAACCCCAACGACAGCATTGTGGTCAACTCCTGCCAGATGAAGTTCCAGCTC
CGCTGCACCCCTGTGCCCCGCGGCTCAGGCCCCGTGCGCCTCCTCTGGAAGAGCTAACAATGGGAACCTCCTGC
CTCCCTGATACGTTTACCAAGCTGATAAACCCCAAGGAAAACACCTGCAGCTTGGAGGAGTTTGTCTCCAGCTG
GAGCTGTCTGGGTATAGTCCCGAAGACCTGACTGCTGCTTGGAGATCTTGAAGCCATTATAGCCACGGGTGT
TTTGGGATTGACAAGGAGGAGCTGCGCAGACGGTTCTCGGCCTTGGAGAAGGCAGGTGGTGGGCGCACAGGACA
TTCGAGATTGATCCAGGCCCTCCTGGAGCAGCATCAGGTGCTGGAGGTGCGTGGCAACACTGCGCGCTGGTA
GCCATGGGCTCTGCTGGCCTTGGCTCCTGCACTCCGTGCGGCTGAAAGACAGAGAAGACGCCGACATCCAGAGA
GAAGACCCCAAGGCCAGACCCCTGGAGGGGTCTTCCAGTGAGGACAGCCCCCGAGGGGCAGGCACCTCCTTCT
CACAGCCCCCGGGGCACCAAGAGGCGCGCCAGCTGGGCCAGTGAGAATGGGGAGACCAGCCGAGGGGCACCCAG
ATGACCCCTGCCAAGAGGCCAGCGCTCCAGGACTCAAATTTGGCCCCAGCCTTGGGCCCGGAGCTGAAGATGGG
GCAGAAGCCCAGGCCCATCTCCACCCCAAGCTCTTGAAGACACCGCTGCAGCGGGAGCAGCACAGGAAGACCA
GAGGGTGTGCGGTAGTTTCAATTCCCCAGGCCAAGAGCAGCTGAGCGGCCAGGCGCAGCTCCAGAGGGCTCTGAA
GACCCCAAGAGGTTTACAGAGAGTTTCCGAGCTGCCAACATCTCCAGGCAGCACGGGAAGGGACTGTGAGAGT
GTCTGCTTTCATCGGCCGCGCTGGCGTGTGCTGGATGGCCACCTGAACCTTCTGTATGCAAGGGTATGATGGAG
GCCATGCTGTACCATCATGACCAGGCTGGCATCCCCGAGAGCTCCCTGCTGCGCCACTACCAGGGGGTCTTG
CAGCCCGTGCCTGTGCTGGAGTTGCTCCAGGGCTGGAGTCCCTCGGCTGCATCCGGAAGCGCTGGCTGAGAAAG
CCAAGGCCTGTCTCGCTCTTCTTACACCCGTGGTGGAAAGAGGTGGAAGTGCCCTCCAGCTGGACGAGAGCCCC
ATGGCTTTCTATGAGCCACCTTGGACTGTACCCTCCGGCTGGGCGTGTGTTCACCCACGAGGTCAACTGGAAC
AAGTGGATCCACCTCTAGGACCCCTGTGGGCGTCCCTCCCTCCAGCCACCGCCTGCCACACCACTCCTGCCTG
GTGCTCGGCAGACCCCACTGTGCCCTGGCCTTGGGTCTGCCGAGCCTCCTGCAGCAGGGGACGGGTGCTTTGGCC
AGAGTCACAGACTGACACGTTTCCCACTGTACTGGAACCTCTGGAAGAGGGGCTCCCGACCTGCCATCCCCA
GGCTCTTCTGGGCCCTTCCCTTGGGAACCTGGCCTCATCACACTGGGAGTTGGTGCTTCTTGTCTTGGGTCTCA
GAGTTTGGCCCGCTGTGCACACCTCACATTCCAGACTCTAGCCATCTCGGCAGGATCTCCTGGCTCCTTGAGTG
CCCAGGTGCCACCAAGAGGAAGGGCCTTGTGGGATACACCTTGCAGAATAGGGATCGGTGTGCCCCGCTGCCAGG
GGCCCCCATGGGGCTGTGGCCCTCCGACGGCAGGACATCCCAACCCCTGGCTGGGACTGAACACCCAGAGC
GGAGCGGCTCCCTTTTACAGCCTTGTGAGTCACTTGGCAGGCCCCAGCTGGGCTGGCTGTCCGTGTCCCTCAGCCT
GGCTGGTGATTCTTGCAGG

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FIGURE 4431

CGTATCCGCTAGCGCGGCCCTGGGATGCGCTTGGGCTCCCTGTTCGTTCCCACATGCAGGGCAGCACAAAGGAGAAT
GGGCGTCATGACTGATGTCCACCGGCGCTTCCTCCAGTTGCTGATGACCCATGGCGTGCTAGAGGAATGGGACGT
GAAGCGCTTGACAGACGACTGCTACAAGGTCCATGACCGCAATGCCACCGTAGATAAGTTGGAGGACTTCATCAA
CAACATTAAACAGTGTCTTGGAGTCCTTGTATATTGAGATAAAGAGAGGAGTCACGGAAGATGATGGGAGACCCAT
TTATGCGTTGGTGAATCTTGCTACAACCTCAATTTCCAAAATGGCTACGGATTTTGCAGAGAATGAACTGGATTT
GTTTAGAAAGGCTCTGGAACGATTATTGACTCAGAAACCGGCTTTGCGTCTTCCACAAACATATTGAACCTGGT
TGATCAACTTAAAGGCAAGAAGATGAGGAAGAAGGAAGCGGAGCAGGTGCTGCAGAAGTTTGTTCAAACAAGTG
GCTGATTGAGAAGGAAGGGGAGTTCACCCTGCACGGCCGGGCCATCCTGGAGATGGAGCAATACATCCGGGAGAC
GTACCCCGACGCGGTGAAGATCTGCAATATCTGTACAGCCTCCTCATCCAGGGTCAAAGCTGCGAAACCTGTGG
GATCAGGATGCACTTACCCTGCGTGGCCAAGTACTTCCAGTCGAATGCTGAACCGCGCTGCCCCACTGCAACGA
CTACTGGCCCCACGAGATCCCAAAAGTCTTCGACCCTGAGAAGGAGAGGGAGTCTGGTGTCTTGAAATCGAACAA
AAAGTCCCTGCGGTCCAGGCAGCATTAGCCATCGTGCCCTGCTGAGGGGCTGGCTGCCCTTGAGTGGCCTGATCGC
CACAGCCCTTCTTGAAGAAAGGCGTCCGTGTTTCAGGTTCCACGCGAGTCACCTCTTTCGTCTTAATGTTTCACC
GTCCACAGCTTTGGAATAAACCATCCTGGG

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FIGURE 4432

GTCTGATCAGACGAGCGGTGAGCGATCGATACTCCTATGCTAGCCTCTGGCTCCTCAGGGGACACAGCCGAGTG
GTCGGACCAAACGCAACGAGTCTTCGCCAGCCCAAAGGCGACTCGACACCGTCCCAGCTGAAGAGAGGCACGGGA
CTGAACCAGCTGGTGGTGGCCCGATGGCTGGAGACACCCACTGCCCGCAGAGCCCTGGCCAGAGAAGGCACTT
TATGGGAGGCCCTCAGGGCGCTCCTGCCGCACAGTAAAGAAGACCTGAAGTTGGACCTCGGGGAGAAAAGTGGAGA
GGAGCGTGGTGACATTGTTGCAGCGAGCCACTGAGCTCTTCTACGAGGGCAGGAGGGACGAGTGTCTGCAGAGCA
GCCAGGTGATCCTGGACTACTCCTGGGAGAAGCTCAACACGGGCACATGGCAGGACGTAGACAAAGACTGGCGCC
GGGTCTACGCCATCGGCTGCCTCCTGAAAGCCCTGTGTCTGTGCCAGGCACCTGAGGATGCCAACACTGTGGCCG
CAGCCCTGCGGGTCTGTGACATGGGCCTGTGTATGGGGGCGAGCCATCCTGGGGGACATCCTTCTTAAAGTCGCTG
CCATCCTCCAGACACACCTCCCTGGAAAGAGGCTGCCCGTGGCTCCCTCCCAGAGCAACCCTGCACAAAGAAAG
CAAGGGCGGACCATGGTTTTGATTCCAGATGTGAAGTTAGAAAAACAGTCCCCCGGCTGCACCGTCCGTCCCTCC
AGCATTTTCAGGGAGCAGTTTTTGGTTCCAGGGAGGCCCGTGATCCTGAAAGGCGTGGCTGACCACTGGCCGTGCA
TGCAGAAGTGGAGTTTGGAGTATATCCAGGAGATCGCTGGCTGCCGAACCTGTCCAGTGGAAGTTGGTTCCAGGT
ACACAGATGAGGAATGGTCCCAGACCCTCATGACGGTCAACGAGTTCATCAGCAAATACATCGTGAATGAGCCAA
GGGACGTGCGGTACCTTGCTCAGCACCAGCTCTTTGACCAGATCCCGGAGTTGAAGCAGGACATCAGCATCCCCG
ACTACTGCAGCTGGGCGATGGGGAGGAGGAGGAATCACCATCAATGCCTGGTTTTGGTCCCCAGGGAACCATCT
CCCCACTACATCAGGATCCCCAGCAAACTTCCTAGTGACGGTGATGGGGAGGAAGTACATCCGGCTGTATTCCC
CGCAGGAGTCAGGGGCTCTGTACCCTCATGACACGCACCTTCTCCATAACACGAGCCAGGTTGACGTGGAGAATC
CCGACCTGGAAAAGTTCCCCAAGTTTGCCAAGGCCCATTCCTGTCTCCTGCATCCTGTCTCCTGGAGAGATCCTGT
TCATCCCGGTGAAATACTGGCATTACGTGCGGGCTCTGGATTTGAGCTTCTCGGTACAGCTTCTGGTGGTCGTAC
CAGGATAGGAGCTGAAAGGGCCTGACATGCAGACAGCATTATCTGTTCACTAATTTCTGGGTCTGGAATCTA
TAGAGACAAGCAGGACTGAACCTGTGTCTGAAGAGCCTTCACTGCCCAGTGGCAGCCCTGGGGGGCTGAGCTCC
AGCACTGGACAGGCACAGAGCAGGGGCTGCCAGGAAGGAGCACACTCCAGGCCAGGGGTGCATGGCAGAGGAAG
GTGGGGAGAGCCAGAAGGACATTGCAGACAGACAGCCTGCATGGGGACTCTGGCATCAGAAAGCCGAATGTTTT
TGGGAAACGGGTGGGTACACAGGCAGGGGTGAAACATGGGCTCTGAGGTGGCTACCTGATTCAAACCCGCGCCG
CGCTGTGCACCTGCTGGGTGACTTGCCAGGATCCCCCACTTCGCTGTGCCCATATGGAAAAGAGGGCAAGGCCA
GTCTCACTGCCGAGGGCCGAGAAGGCGGTGCCGAGCCCCTGCTGTGCATGAACCTTAGCCGCTGTCACTGATC
CCAATTACTCTGATCCTTTTGCCCTTCCCTTCCATAACGGCCTGCTGGACGCCACAGCCTGAATACTGGAGAGAG
CTGGGCATTGCCCAGGTACAGGAGAGAGTCCGTAGAGACCTGCGCAGGAGCCGGGACCCCTGCTGAGCAGTGGG
AGCTTTCTGTATCCCCATGGCTCAAGGATAACCTACCTGCCTGCAGAGAAGTGCGAAGGTCTTGCTGGATGACT
TTTCACCCGCACTCACCAGGAGCAGGCTCCCAAGTGAAGAAACCACCGAACCATCACCAGCTCCTAGAAGCCTC
CCTCCTACCACCTTCTAGTCACCATCCCCAGAAGTAATGACTCTCAAACCTGGGGGATTTGAGGCCAGGGGGAG
AGCCAGGCTCTATGCTTTCTGTAATTGTGTCTCGTTTGTGTGCACGCAGGTTTGTTTTATGTTTTGGCCATTAAAG
ATTTTCCCCAGCCCTC

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FIGURE 4433

MAGDTHCPAEPLAREGTLWEALRALLPHSKEDLKLDLGEKVERSVVTLLQRATELFYEGRRDECLQSSEVILDYS
WEKLNTGTWQDVVDKDWRRVYAIGCLLKALCLCQAPEDANTVAAALRVCDMGLLMGAAILGDILLKVAAILQTHLP
GKRPARGSLPEQPCTKKARADHGLIPDVKLEKTVPRLHRPSLQHFREQFLVPGRPVILKGVADHWPCMQKWSLEY
IQEIAGCRTVPVEVGSRYTDEEWSQTLMTVNEFISKYIVNEPRDVGylaQHQLFDQIPeLKQDISIPDYCSLGDG
EEEEITINAWFGPQGTISPLHQDPQQNFLVQVMGRKYIRLYSPQESGALYPHDTHLLHNTSQVDVENPDLEKFPK
FAKAPFLSCILSPGEILFIPVKYWHYVRALDLSFSVSFWWS

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FIGURE 4434

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCCCGCGGCCACTGCATCCCCGCGTCCAGC
ACCTACGTCCTGCTGCCGTCGCCGCCACCACCATGCCCACTAAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTA
CCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAACA
GACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTGCATTTTGTATAACTGTGTACTTCTG
GTGACTGTACAGTTTGAATACTATTTTTTATCAAGTTTATAAAAATGTGGAATTTGTTTTACTTTTTTTTTT
TTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCACTAATAGA
ATGTCTCCAAAGCTGGATTGATGTGGAGAAAACACCTTTCCCTTCTAGTTTTGAGAGACTTCCTCTTGGCTCCCA
GGAGGAGGGATTCCCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTTGGTATAGAAAGACAAATTT
GTTTTTATGTCCTCTTCTCCCTTTCCATCTTTTACGATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGAC
CTGACCCCTAGTCATTGGTTACCAGTGTGTGTCAGGCAATCTGGACTTTCCAGTGTATGCCACTGAGATGGCACCTGT
CAAAGAGCAGTGGTTCCATTCTAGATTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAA
GTCAGAGATGGCTTGTGTCCCTGTTTCAGAGCATCAGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTT
TTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAACGATTGTCTGCCCATGTCCTGCCTGA
AATACCATGATTGTTTATGAAAAGTATCTTTAATAAAGCTGGATACAG

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FIGURE 4435

GAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCGCGGCCACTGCATCCCGCGTCCAGCACCTACGTCCTG
CTGCCGTCGCCGCCACCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCAAAGCCAGAGCCCAAGACTAAAAAGG
CCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAAGCTGATGCTGGCAAGGAGGGGAATAACC
CTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGT
GCATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAATACTATTTTTTATCAAGTTTTATAAAAATG
TGGAATTTTGTTTTACTTTTTTTTTTTTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTG
GGGAAGGGGCATATGTCATAATAGAATGTCTCAAAGCTGGATTGATGTGGAGGATTCCTGACTTTGACACAC
ATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAGACAAATT

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FIGURE 4436

G TAGTAGCTGCCAGGCTGTCCCCGCCCTGCCCGGCCGAGCCCCGCGGGCCGCCGCCGCCACCGCCGCCATGAA
GAAGCAGTTCAACCGCATGAAGCAGCTGGCTAACAGACCGTGGGCAGAGCTGAGAAAACAGAAGTCCTTAGTGA
AGATCTATTACAGATTGAGAGACGCCTGGACACGGTGCCGTCAATATGCCACCATTCCCATAAGCGCTTGGTGGC
ATGTTTCCAGGGCCAGCATGGCACCAGTCCCGAGAGGAGACACAAAAAACTGCCTCTGACAGCTCTTGCTCAAAA
TATGCAAGAAGCATCGACTCAGCTGGAAGACTCTCTCCTGGGGAAGATGCTGGAGACGTGTGGAGATGCTGAGAA
TCAGCTGGCTCTCGAGCTCTCCAGCACGAAGTCTTTGTTGAGAAGGAGATCGTGGACCCTCTGTACGGCATAGC
TGAGGTGGAGATTCCCAACATCCAGAAGCAGAGGGAGCAGCTTGCAAGATTGGTGTAGACTGGGATTAGTCAG
AGCCAGGTGGAACCAAGCTCACAAATCCTCAGGAACCAACTTTCAGGGGCTTCCATCAAAAATAGATACTCTAAA
GGAAGAGATGGATGAAGCTGGAAATAAAGTAGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACCTTAT
GGCCAAAGAAGGGGAGTATGGCAAATCTTTGTTACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATT
AGCAGTCTTAGAAAAGACCTCCCCGAAATGCGAGCCCATCAAGATAAGTGGGCGGAAAAACCAGCCTTTGGGAC
TCCCCTAGAAGAACACCTGAAGAGGAGCGGGCGCGAGATTGCGCTGCCCATTTGAAGCCTGTGTCTGCTGCTTCT
GGAGACAGGCATGAAGGAGGAGGGCCCTTTTCCGAATTGGGGCTGGGGCCTCCAAGTTAAAGAAGCTGAAAGCTGC
TTTGACTGTTCTACTTCTACCTGGATGAGTTCTATTAGACCCCCATGCTGTAGCAGGTGCTTTAAATCCTA
TTTACGGGAATTGCCTGAACCTTTGATGACTTTTAATCTGTATGAAGAATGGACACAAGTTGCAAGTGTGCAGGA
TCAAGACAAAAAAGCTTCAAGACTTGTGGAGAACATGTGCAAGTTGCCACCACAAAATTTTGTTAACCTTTAGATA
TTTGATCAAGTTCTTGCAAAGCTTGCTCAGACCAGCGATGTGAATAAAATGACTCCAGCAACATTGCGATTGT
GTTAGCCCCTAACCTTGTTATGGGCCAGAAACGAAGGAACACTTGCTGAAATGGCAGCAGCCACATCCGTCCATGT
GGTTGCAGTGATTGAACCCATCATTAGCATGCCGACTGGTTCTTCCCTGAAGAGGTGGAATTTAATGTATCAGA
AGCATTTGTACCTCTCACCACCCCGAGTTCTAATCACTCATTCCCACTGGAAACGACTCTGACTCGGGGACCTT
GGAGAGGAAGCGGCTGCTAGCATGGCGGTGATGGAAGGAGACTTGGTGAAGAAGGAAAGTCCTCCCAACCGAA
GGACCTGTATCTGCAGCTGTGCCAGCACCAGGGAGAAACAACAGTCAGATAGCATCTGGCCAAAATCAGCCCCA
GGCAGCTGCTGGCTCCCACAGCTCTCCATGGGCCAACCTCACAAATGCTGCAGGGCCAGCCCGCATACACTGCG
CCGAGCTGTTAAAAAACCCGCTCCAGCACCCCCGAAACCGGGCAACCCACCTCCTGGCCACCCCGGGGCCAGAG
TTCTTCAGGAACATCTCAGCATCCACCCAGTCTGTACCAAAGCCACCCACCCGAAGCCCTCTCTCCCACCCA
GCACACGGGCCAGCCTCCAGGCCAGCCCTCCGCCCCCTCCAGCTCTCAGCACCCCGGAGGTACTCCAGCAGCTT
GTCTCCAATCCAAGCTCCCAATCACCCACCGCCGAGCCCCCTACGCAGGCCACGCCACTGATGCACACCAAACC
CAATAGCCAGGGCCCTCCCAACCCCATGGCATTGCCAGTGAGCATGGACTTGAGCAGCCATCTCACACCCCTCC
CCAGACTCCAACGCCCCCAGTACTCCGCCCCCTAGGAAAACAGAACCCAGTCTGCCAGCTCCTCAGACCTTGGC
AGGGGGTAACCTGAAACTGCACAGCCACATGCTGGAACCTTACCGAGACCGAGACCAGTACCAAAGCCAAGGAA
CCGCCCCAGCGTGCCCCCACCCCCCAACCTCCTGGTGTCCACTCAGCTGGGGACAGCAGCCTCACCAACACAGC
ACCAACAGCTTCCAAGATAGTAACAGACTCCAATTCCAGGGTCTCAGAACCGCATCGCAGCATCTTCTCTGAAGT
GCACTCAGACTCAGCCAGCAAAGACGTGCCTGGCCGCATCCTGCTGGATATAGACAATGATACCGAGAGCACTGC
CCTGTGAAGAAAGCCCTTTCCAGCCCTCCACCACTTCCACCTGGCGAGTGGAGCAGGGGCAGGCGAACCTCTT
TCTTTGCAGACCGAACAGTGAAAAGCTTTCAGTGGAGGACAAAGGAGGGCCTCACTGTGTGGGACCTGGCCTTCT
GCACGGCCCAAGGAGAACCTGGAGGCCACCACTAAAGCTGAATGACCTGTGTCTTGAAGAAGTTGGCTTTCTTTA
CATGGGAAGGAAATCATGCCAAAAAATCCAAAACAAAGAAGTACCTGGAGTGGAGAGAGTATTCTGCTGAAAC
GCGCATAGGAAGCTTTTGTCCCTGCTGTTAATGCGGGCAGCACCTACAGCAACTTGAATGAGTAAGAAGCAGTG
CGTTAACTATCTATTTAATAAAATGCGCTCATTATGCAAGTCGCCTACTCTGCTACCTGGACGTTTCTTTA
TGTATTAGGAGGGAGGCTGCGCTCCTTCAGACTTGCTGCAGAAATCATTTTGTATCATGTATGGTCTGTGTCTCCC
CAGTCCCCCTCAGAACCATGCCCATGGATGGTACTGCTGGCTCTGTACCTCATCAAACCTGGATGTGACCCATGC
CGCCTCGTTGGATTGTGCGAATGTAGACAGAAATGTACTGTCTTTTTTTTTTTTTTAAACAAATGTAATTGCTAC
TTGATAAGGACCGAACATTATTCTAGTTTCATGTTTAATTTGAATTAATATATTCTGTGGTTTATATG

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FIGURE 4437

MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSICHSHSHKRLVACFQGQHGTDERRHKKLPLTALA
QNMQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQREQLARLVLDWDS
VRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAGEGEYGKFFVTLLAQADYHRK
ALAVLEKTLPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK
AALDCSTSHLDEFYSDFHAVAGALKSYLRELPEPLMTFNLYEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNF
RYLIKFLAKLAQTSNVKMTSPNIAIVLAPNLLWARNEGTLAEMAAATSVHVAVIEPIIQHADWFFPEEVEFNV
SEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKESPPKPKDPVSAAVPAPGRNNSQIASGQNO
PQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKKPAPAPPKGNPPPGHGGQSSSGTSQHPPSLSPKPPTRSPSP
TQHTGQPPGQPSAPSQLSAPRRYSSSLSPIQAPNHPPPQPPTQATPLMHTKPNSSQGPNNPMALPSEHGLEQPSHT
PPQTPTFPSTPPLGKQNPSPAPQTLAGGNPETAQPHAGTLPRPRPVKPRNRPSVPPPPQPPGVHSAGDSSLTN
TAPTASKIVTDSNSRVSEPHRSIFPEVHSDSASKDVPGRILLDIDNTESTAL

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FIGURE 4438A

GAAACCTCTAGGTCCACCACCTCCATCTTACACGTGTTTCCGTTGTGGTAAACCTGGACATTATATTAAGAATTG
CCCAACAAATGGGGATAAAAACCTTTGAATCTGGTCCTAGGATTAAGAGAGCACTGGAATCCCAGAAGTTTCAT
GATGGAAGTGAAAGATCCTAATATGAAAGGTGCAATGCTTACCAACACTGGAAAATATGCAATACCAACTATAGA
TGCAGAAGCATATGCAATTGGGAAGAAAGAGAAACCTCCCTTCTTACCAGAGGAGCCATCTTCTTCTCAGAAGA
AGATGATCCTATCCCAGATGAATTGTTGTGTCTCATCTGCAAGGATATTATGACTGATGCTGTTGTGATTCCCTG
CTGTGGAACAGTTACTGTGATGAATGTATAAGAACAGCACTCCTGGAATCAGATGAGCACACATGTCCGACGTG
TCATCAAAATGATGTTTCTCTGATGCTTTAATTGCCAATAAATTTTTACGACAGGCTGTAAATAACTTCAAAAA
TGAACTGGCTATACAAAAAGACTACGAAAACAGTTACCTCCTCCACCACCCCAATACCACCTCCGAGACCACT
GATTCAGAGGAACCTACAACCTCTGATGAGATCTCCGATATCAAGACAACAAGATCCTCTTATGATTCCAGTGAC
ATCTTCATCAACTCACCCAGCTCCGTCTATATCTTCATTAACCTTCTAATCAGTCTTCTTGGCCCCCTCTGTGTC
TGGAAATCCGTCTTCTGCTCCAGCTCCTGTACCTGATATAACTGCAACAGTATCCATATCAGTTTATTGAGAAA
ATCAGATGGACCTTTTGGGATTCTGATAATAAATATTTGCCAGCTGCAGCTCTTGATCAGAGCACTCAAGGG
AACCTCCTCAATTGCAATTACCGCTCTTATGGAAGAGAAGGGTTACCAGGTGCCTGTTCTTGGAAACCCATCTTT
GCTTGGACAGTCATTATGATGACAGTTGATCCCCACAACCTGGTCCAGTAAGAATAAATACTGCTCGTCCAGG
TGGTGGTCGACCAGGCTGGGAACATTCCAACAACTTGGCTATCTGGTTTCTCCACCACAACAAATTAGAAGAGG
GGAGAGGAGCTGCTACAGAAGTATAAACCGTGGGCGACACCACAGCGAAAGATCACAGAGGACTCAAGGCCCGTC
ACTACCAGCAACTCCAGTCTTTGTACCTGTTCCACCACCTCCTTTGTATCCGCTCCTCCCCATACACTTCTCT
CCCTCCGGGTGTTTCTCTCCACAGTTTCTCCTCAGTTTCTCCTGGCCAGCCACCACCCGCTGGGTATAGTGT
CCCTCCTCCAGGGTTTCTCCTCAGCTCCTGCCAATTTATCAACACCTTGGGTATCATCAGGAGTGCAGACAGTCA
TTCAAAATACCATCCCAACAACACAAGCACCACCTTTGTCCAGGGAAGAATTCTATAGAGAGCAGCGACGACTAAA
AGAAGAGTCTAAATCTCCCTATAGTGGTCTTCGTATTCAAGAAGTTCATATACTTATTCTAAATCAAGATCTGG
TTCAACACGTTTACGCTCTTATTCTCGATCATTACGCCGCTCACATTCTCGTTCCTATTACGGTTCACCTCCATA
CCCCAGAAGAGGCGAGGCAAGAGCCGCAATTACCGTTACGGTCTAGATCTCATGGATATCATCGATCTAGGTC
AAGGTACCCCTTACAGACGCTATCATTACAGATCAAGATCTCCTCAAGCGTTTAGGGGACAGTCTCCTAATAA
ACGTAATGTACCTCAAGGGGAAACAGAACGTGAATATTTAATAGATACAGAGAAGTCCACCACCATATGACAT
GAAAGCATATTATGGGAGAAGTGTTGACTTTAGAGACCCATTTGAAAAAGAACGCTACCGAGAATGGGAGAGAAA
ATATAGAGAGTGGTATGAAAAATATTATAAAGGTTATGCTGCTGGAGCACAGCCTAGACCTCAGCAATAGAGA
GAACTTTCTCCAGAGAGATTTTGGCACTTAACATCAGGAATTCTCCCTTCAAGAGGCCGAGAGAAAGACTA
TGTTGGTGGGCAAAGTCATAGAAGTCGAAACATAGGTAGCAACTATCCAGAAAAGCTTTACAGAAAGAGATGGTCA
CAATCAGAAGGATAATACAAAGTCAAAAGAGAAGGAGAGTGAAAACGCTCCAGGAGATGGTAAAGGAAATAAGCA
TAAGAAACACAGAAAAAGAAAGGGGAGGAAAGTGAGGGTTTTCTGAACCCAGAGTTATTAGAGACTTCTAG
GAAATCAAGAGAACCTACAGGTGTTGAAGAAAATAAAACAGACTCATTGTTTGTCTCCCAAGTAGAGATGATGC
CACACCTGTTAGAGATGAACCAATGGATGCAGAATCAATCACTTTTAAATCAGTGTCTGAAAAAGACAAGAGAGA
AAGGGATAAAACAAAAGCAAAGGGTGATAAAACCAACGGAAGAATGATGGATCTGCTGTGTCAAAAAAGAAAA
TATTGTAAAACCTGCTAAAGGACCCCAAGAAAAAGTAGATGGAGAACGTGAGAGATCTCCTCGATCTGAACCTCC
AATTAAGAAAGCCAAAGAGGAGACTCCGAAGACTGACAATACTAAATCATCATCTTCTCTCAGAAGGATGAAAA
AATCACTGGAACCCCAAGAAAAGCTCACTCTAAATCAGCAAAAGAACCAAGAAACAAAACAGTCAAGAGGA
AAAAGTGAAGAAGGACTATTCCAAAGATGTCAAATCAGAAAAGCTAACAACTAAGGAAGAAAAGGCCAAGAGCC
TAATGAGAAAAACAAACCACTTGATAATAAGGGAGAAAAAGAAAAAGAAAACTGAAGAAAAAGGCGTAGATAA
AGATTTTGAGTCTTCTTCAATGAAAATCTCGAACTAGAAAGTGAATGAAATAGTGAAACCATCACCAAGCGCAA
AATGGAACCTGATACTGAAAAATGGATAGGACCCCTGAAAAGGACAAAATTTCTTTAAGTGCGCCAGCCAAAA
AATCAAACTCAACAGAGAACTGGGAAGAAAATTGGAAGTACAGAAAATATATCAAAACAAAAAGAACCTCTGA
AAAATTGGAGTCAACATCTAGCAAAGTTAAACAAGAAAAAGTCAAAGGAAAGGTGAGACGAAAAGTGAAGTGAAC
TGAAGGATCCAGCTCAACTCTGGTGGATTACACCACTACGAGCTCACTGGAGGCAGTCTGTGCGGAAATCTGA
AGAAAAACAGATACAAAGCGAAGTGTGATTAAACGATGGAAGAATATAATAATGACAATACCGCGCCAGCTGA
AGATGTTATCATTATGATTGAGTTTCTCAATCCAAATGGGATAAAGATGACTTTGAATCTGAAGAAGAAGATGT
TAAATCCACACAGCTATATCAAGTGTAGGAAAACCTGCTAGTGTTATAAAAAATGTTAGTACAAAGCCATCAAA
TATAGTCAAGTATCCTGAGAAAGAAAGTGAGCCATCCGAGAAAATTGAGAAATTCAGAAATTCACCAAGGACGTGAGCCATGA

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FIGURE 4438B

AATCATACAACATGAGGTTAAAAGTTCAAAAACTCTGCATCTAGTGAAAAAGGGAAAACCAAAGATCGAGATTA
TTCAGTGTGGAAAAGGAGAACCCCTGAAAAGAGGAAGAACAGCACTCAGCCAGAGAAAAGAGAGTAATTTGGACCG
TCTGAATGAACAAGGAAATTTTAAAAGTCTGTCTCAATCTTCCAAAGAGGCTAGAACGTCAGATAAACATGATTC
CACTCGTGCTTCCCTCAAATAAAGACTTCCTCCAATAGAGACAAAAAACTGACTATGACACCAGAGAGTATTC
AAGTTCCAAACGTAGAGATGAAAAGAATGAATTAACAAGACGAAAAGACTCTCCTTCTCGGAATAAAGATTCTGC
ATCTGGACAGAAAAATAAACCAAGGGAAGAGAGAGATTTGCCTAAAAAAGGAACAGGAGATTCCAAAAAAGTAA
TTCTAGTCCCTCAAGAGACAGAAAACCTCATGATCACAAAGCCACTTATGATACTAAACGGCCAAATGAAGAGAC
AAAATCTGTAGATAAAAAATCCTTGTAAGGATCGTGAGAAGCATGTATTAGAAGCAAGGAACAATAAAGAGTCAAG
TGGCAATAAACTACTTTATATACTTAACCCACCAGAGACACAGGTTGAAAAAGAGCAAATTACTGGGCAAATTGA
CAAGAGTACTGTCAAGCCTAAACCCAGTTAAGTCATTCTCTAGACTTTCTCTGACTTAACTAGAGAACTGA
TGAAGCTGCTTTTGAACCAGACTATAATGAAAGTGACAGTGAAAGTAATGTTTCTGTAAAGAAGAGGAATCTTC
AGGAAACATTTCTAAGGACCTGAAAGATAAAATAGTGGAGAAAGCAAAAGAGAGCCTGGACACAGCAGCAGTTGT
CCAGGTGGGCATAAGCAGGAATCAGAGCCACAGCAGCCCCAGCGTCAGCCCCAGCAGAAGCCACAGTCCTTCTGG
AAGCCAGACCCGAAGCCACAGTAGCAGTGCCAGCTCAGCAGAAAGTCAGGACAGCAAGAAGAAGAAAAAGAA
GGAAAAGAAAAACACAAGAAACATAAAAAGCATAAGAAGCATAAGAAACATGCAGGCACTGAAGTGGAAATTGGA
AAAAAGCCAAAAACACAACACAAGAAAAAGAAGTCAAAGAAGACAAAGATAAAGAGAAGGAGAAGGAGAAAGA
TGACCAAAAAGTGAAATCTGTCACTGTGTAAAAAGACAGATTTTTTAAATTGACTTAATTACTAAGTCATCTGTA
TTAAATTTTGTATAATGTAAAGAGATTCAAGCCTTGTAATAATGACATGGAAGACCCTGTGCTGCACTTAAAA
TATTGCTGCTTGATTATTTGATTTTACATCAGAGCTTTATAACACGAACTTTTGTACAGAATTGTGAGTTGTGA
CCATGTAACATGAGAGGTTTTGCTAGGGCCTATTATTTTTAACCACCATTAAATTAGTTGGGGTGGAGTTTACTGT
AATGTGAAATTTTACATTTGAATTTTTTAATTGCCTGGCAAAAGCTGATATAAGTTCTAAAATATCAGCAGAAT
GATTTGCTGAATTCATTACAACCCGTATTATGTCACTTTTTGATTACAATAAAAGTTTTTCAGTAACTTTTC

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FIGURE 4439

MATTKAIDDSSASISLAQLTKTANLAEANASEEDKIKAMMSQSGHEYDPINYMKKPLGPPPPSYTCFRCGKPGHY
IKNCPTNGDKNFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPITIDAEAYAIGKKEKPPFLPEEPSS
SSEEDDPIPELLELCLICKDIMTDAVVI PCCGNSYCDECIRTALLESDEHTCPTCHQNDVSPDALIANKFLRQAVN
NFKNETGYTKRLRQLPPPPPIPPPRPLIQRLQPLMRSPISRQDPLMIPVTSSSTHPAPSISLTSNQSSLA
PPVSGNPSSAPAPVPDITATVSI SVHSEKSDGPFRRSDNKILPAAALASEHSKGTSSIAITALMEEKGYQVPVLG
TPSLLGQSL LHGQLIPTTG PVRINTARPGGGRPGWEHSNKLGYLVSP PQQIRRGERSCYRSINRGRHHSERSQRT
QGPSPATPVFVPVPPPPPLYP PPHLPLPPGVPPPQFSPQFPQPAGYSVPPPGFPAPANLSTPWVSSGV
QTAHSNTIPTTQAPPLSREEFYREQRLKEESKSPYSGSSYSRSSYTSKSRSGSTRSRYSRSFSRSHRSYSR
SPPYPRRGRGKSRNYSRSRSHGYHRSRSRSPYRRYHRSRSRSPQAFRGQSPNKRNVQGETEREYFNRYREVPP
PYDMKAYYGRSVD FRDPFEKERYREWERKYREWEKYYKGYAAGAQPRPSANRENFSPERFLPLNIRNSPFTTRGR
REDYVGGQSHRSRNIGSNYPEKLSARDGHNQKDNKTSKEKESENAPGDGKGNKHKHKKRKRKKEESEGFLNPELL
ETSRKSREPTGVEENKTD SLFVLP SRDDATPVRDEPMDAESITFKSVSEKDKRERDKPKAKGDKTKRKNDSAVS
KKENIVKPAKGPQEKVDGERERSPRSEPP IKKAKEETPKTDNTKSSSSSQKDEKITGTPRKAHKSMAKEHQETKP
VKEEKVKKDYSKDVKSEKLTTEEKAKKPNEKNKPLDNKGEKRKRKTEEKGVDKDFESSMKISKLEVTEIVKPS
PKRKMEDTEKMDRTPEKDKISLSAPAKKIKLNRETGKKIGSTENISNTKEPSEKLESTSSKVKQEKVKGVRRK
VTGTEGSSSTLVDYTSSTGSGSPVRKSEKTDTKRTVIKTMEEYNNNDNTAPAEDVIIMIQVPQSKWDKDDFES
EEDVKSTQPISSVGKPASVIKNVSTKPSNIVKYPEKESEPSEKIQKFTKDVSH EIIQHEVKSSKNSASSEKGTK
DRDYSVLEKENPEKRKNSTQPEKESNLDRLNEQGNFKSLSQSSKEARTSDKHDSTRASSNKDFTPNRDKKTDYDT
REYSSSKRRDEKNELTRRKDSPSRNKDSASGQKNKPREERDLPKKGTGDSKKSNSSPSRDRKPHDHKATYDTKRP
NEETKSVDKNPCKDREKHVLEARNNKESGKNLLYILNPPETQVEKEQITGQIDKSTVKPKPQLSHSSRLSSDLT
RETDEAAFE PDYNESDSESNVSVKEEESGNISKDLKD KIVEKAKESLDTAAVVQVGISRNQSHSSPSVSPSRSH
SPSGSQTRSHSSASSAESQDSK KKKKKKKKKKKKKKKKKKKHAGTEVELEKSQKHKKKKKKKKKNKDKEKE
KEKDDQKVKSVTV

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FIGURE 4440

TGACATTGTGCCCCTTGGCGGATTCTCGATTTCCTCTTCCCCGTCCTCGTCCTCCTCCTCCCCATGAAGTGA
TTCTGAGTATCGGGGGTCTCTGGATTATTGTTCTGACGAACCCCTGCTTGTGGTTGGGGGTATTTAATCTGAG
GCCTTAGGGTCCTTCGGTGTCTTTGAGTGTGTTGTGTGTACATATTTTACTCTTAAAGTTTATAAATATACGTAT
ATTGAGAGTGTCCACGTCTCCTCGCTGAACCTTAGGAATCCCTTGGCACCATGTCCTGTGTGCATTATAAATTTT
CCTCTAAACTCAACTATGATACCGTCACCTTTGATGGGCTCCACATCTCCCTCTGCGACTTAAAGAAGCAGATTA
TGGGGAGAGAGAAGCTGAAAGCTGCCGACTGCGACCTGCAGATCACCAATGCGCAGACGAAAGAAGGTAAGGGCC
GCTTGGTCTTAAGATATTTGGTGGCTGGAGAGAGATACTAGCTAGAAGGTGCCTGGCAGGAAGCTAACCGCCATT
ATGTCCTAGTGGGGACTGTTTCGTTCTAGTACTTTGGATACAACTTTCATTGATAGCCAAGGTTTGCAGCAGTTG
GCCTTGGAGTTTCACTGGTTTATTTTATTTCTGCATACITGGGTCACTCTGTAACAGGCTAACCCAAAACGTGGAA
GCCTGATTATTCTTCTCGCTGTTTTTTAAAATGAGGGAGGGAGAGAGGGGGATAGCTATCTAGACTCTTTGAGT
GCTTGTCTTAGGGCGTTTCTAACTTATTTTCCATCAGGAGGGCAGGAGAGCCTGTGCAAAGCTTGTGTTCAA
TCAGC

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FIGURE 4441

MSCVHYKFSSKLNVDTVTFDGLHISLCDLKKQIMGREKLKAADCDLQITNAQTKEGKGRVLRLVAGERY

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FIGURE 4442

GGCACGAGGGAGCGGTGCGGAGGCTCTGCTCGGATCGAGGTCTGCAGCGCAGCTTCGGGAGCATGAGTGTGCAG
TGA CTGCAGGGAAGCTGGCACGGGCACCGCCGACCTTGGGAAAGCCGGGGTCCCCGGAGTTGCAGCTCCCGGAG
CTCCGGCGGGCGGCTCCACCGCGAAAGAGATCCCGGAGGTCTAGTGGACCCACGCAGCCGGCGGCGCTATGTGC
GGGGCCGCTTTTTGGGCAAGGGCGGCTTTGCCAAGTGCTTCGAGATCTCGGACGCGGACACCAAGGAGGTGTTTCG
CGGGCAAGATTGTGCCTAAGTCTCTGCTGCTCAAGCCGCACCAGAGGGAGAAGATGTCCATGGAATATCCATT
ACCGCAGCCTCGCCACACGACGTCGTAGGATTCCACGGCTTTTCGAGGACAACGACTTCGTGTTTCGTGGTGT
TGGAGCTCTGCCGCGGAGGTCTCTCCTGGAGCTGCACAAGAGGAGGAAAGCCCTGACTGAGCCTGAGGCCGAT
ACTACCTACGGCAAATTGTGCTTGGCTGCCAGTACCTGCACCGAAACCGAGTTATTCATCGAGACCTCAAGCTGG
GCAACCTTTTCTGAATGAAGATCTGGAGGTGAAAATAGGGGATTTTGGACTGGCAACCAAGTCGAATATGACG
GGGAGAGGAAGAAGACCCCTGTGTGGGACTCCTAATTACATAGCTCCCGAGGTGCTGAGCAAGAAAGGGCACAGTT
TCGAGGTGGATGTGTGGTCCATTGGGTGTATCATGTATACCTTGTAGTGGGCAAACCACTTTTGAGACTTCTT
GCCTAAAAGAGACCTACCTCCGGATCAAGAAGAATGAATACAGTATTTCCAAGCACATCAACCCCGTGCCCGCT
CCCTCATCCAGAAGATGCTTCAGACAGATCCCACTGCCCCGCCAACCAATTAACGAGCTGCTTAATGACGAGTTCT
TTACTTCTGGCTATATCCCTGCCCGTCTCCCCATCACTGCCTGACCATTCCACCAAGGTTTTCGATTGCTCCCA
GCAGCCTGGACCCAGCAACCGGAAGCCCTCACAGTCTCAATAAAGGCTTGGAGAACCCCTGCCTGAGCGTC
CCCGGGAAGAAAGAACCAAGTGGTTCGAGAGACAGGTGAGGTGGTCGACTGCCACCTCAGTGACATGCTGCAGC
AGCTGCACAGTGTCAATGCCTCCAAGCCCTCGGAGCGTGGGCTGGTCAGGCAAGAGGAGGTGAGGATCCTGCCT
GCATCCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGGACAAGTACGGCCTTGGGTATCAGCTCTGTGATA
ACAGCGTGGGGTGCTCTTCAATGACTCAACACGCCTCATCCTCTACAATGATGGTGACAGCCTGCAGTACATAG
AGCGTGACGGCACTGAGTCTACCTACCGTGAGTTCCTCATCCCACTCCTTGATGAAGAAGATCACCCCTCCTTA
AATATTTCCGCAATTACATGAGCGAGCACTTGCTGAAGGCAGGTGCCAACATCACGCCGCGCGAAGGTGATGAGC
TCGCCCCGCTGCCCTACCTACGGACCTGGTTCCGCACCCGCAGCGCCATCATCCTGCACCTCAGCAACGGCAGCG
TGCAGATCAACTTCTTCCAGGATCACACCAAGCTCATCTTGTGCCCACTGATGGCAGCCGTGACCTACATCGACG
AGAAGCGGGACTTCCGCACATACCGCTGAGTCTCCTGGAGGAGTACGGCTGCTGCAAGGAGCTGGCCAGCCGGC
TCCGCTACGCCCGCACTATGGTGGACAAGCTGCTGAGCTCACGCTCGGCCAGCAACCGTCTCAAGGCCTCTTAAT
AGCTGCCCTCCCCTCCGGACTGGTGGCTCCTCACTCCCACTGCATCTGGGGCCCATACTGGTTGGCTCCCGCG
GTGCCATGTCTGCAGTGTGCCCCCAGCCCCGGTGGCTGGGCAGAGCTGCATCATCCTTGAGGTGGGGGTTGCT
GTGTAAGTTATTTTTGTACATGTTCCGGTGTGGGTTCTACAGCCTTGTCCCCCTCCCCCTCAACCCCAACCATATG
AATTGTACAGAATATTTCTATTGAATTCCGAACTGTCCTTTCCTTGGCTTTATGCACATTAAACAGATGTGAATA
TTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4443

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRYVRGRFLGKGGFAKCFEISDADT
KEVFAGKIVPKSLLLKPHQREKMSMEISIHRS LAHQHVVG FHGFFEDNDFV FVLELCRRRS LLELHKRRKALTE
PEARYYLRQIVLGCQYLHRNRVIHRDLKLG NLFNEDLEV KIGDFGLATKVEYDGERKKTLCGTPNYIAPEVLSK
KGHSFEVDVWSIGCIMYTLLVGKPPFETSCLKETYLR IKKNEYSIPKHINPVAASLIQKMLQTDPTARPTINELL
NDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLENPLPERPREKEEPVRETGEVVDCHLS
DMLQQLHSVNASKPSEGLVRQEEAEDPACIPFWVSKWVDYSDKYGLGYQLCDNSVGVL FNDSTR LILYNDGDS
LQYIERDGTESYLT VSSHPNSLMKKITLLKYFRNYMSEHLLKAGANITPREGDELARLPYLRTWFRTRSAILHL
SNGSVQINFFQDHTKLILCPLMAAVTYIDEKRDFRTYRLS LLEEGCCKELASRLRYARTMVDKLLSSRSASNRL
KAS

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FIGURE 4445

MELGELLYNKSEYIETASGNKVSQRQSVLCGSQNIVLNGKTI VMNDCIIRGDLANVRVGRHCVVKSRSVIRPPFKK
FSKGVAFFPLHIGDHVFIEEDCVVNAAQIGSYVHVGNKCVIGRRCVLKDCCKILDNTVLPPETVVPFPTVFSGCP
GLFSGELPECTQELMIDVTKSYYQKFLPLTQV

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FIGURE 4446

AGTGCATCCTGGGTTGGCGTAGCCATGGCGTCTCGTGTCCTTTCAGCCTATGTCAGCCGCCTGCCCCGCGGCCTTT
GCGCCGCTGCCCCGGGTCCGGATGCTGGCCGTGGCCCGGCCTCTCAGCACTGCTCTCTGCTCCGCGGGGACCCAG
ACGAGGCTCGGGACTTTGCAGCCGGCCTTAGTGCTCGCGCAGGTTCTGGTAGAGTTACACAGTTGTGCCGCCAG
TATAGCGACATGCCTCCTTTGACGTTAGAGGGCATCCAGGACCGTGTCTTTACGTATTGAAACTCTATGACAAG
ATTGACCCAGAGAAGCTTTCAGTAAATTCTCATTTTATGAAAGACCTGGGCTTAGACAGTTTGGACCAAGTGGAG
ATTATCATGGCCATGGAAGACGAATTTGGGTTTGAAATTCCTGATATAGATGCTGAAAAGTTAATGTGTCCACAA
GAAATTGTAGATTACATTGCAGATAAGAAAGATGTATATGAATTAAAGTATCAGACCCTTTGGCTTTGCTGAGAGA
GGACTCAGATGATAGTGACGAATGTCTGGCAGTGAGGACACATTTTGGCATTCTTGCTGACTCTGACAGAGTGAT
TCTGATGGACTTGTATTTAAATTGTATGTGTTTTACTCTTTGAAAATAAATCTATAAAACCAA

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FIGURE 4447

MASRVLSAYVSRLPAAFAPLPRVRMLAVARPLSTALCSAGTQTRLGTLQPALVLAQVPGRVTQLCRQYSDMPPLT
LEGIQDRVLYVLKLYDKIDPEKLSVNSHFMKDLGLDQLDQVEIIMAMEDEFGFEIPDIDAEKLMCPQEIVDYIAD
KKDVYE

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FIGURE 4448

GT TTTTCCATGTTGCCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCCAAGTAC
TGGGATTACAGGCATGTCCCACCATGCCCAGACTAATATTTACTTTTAAATCAGACTAAGATAGGGTTACTACTTG
AGTTGCTATGGCTCCAGCTGAAAGCCTGTGCAGTCATATCATGGGTAAACATTTGCTTTATGCTAAAAATATGGT
GGACCTGGCATTACAGCTATTACAAATCTCCTAAGGTGTCTCAGGTAGTGTATTAGTTACTTTTCATACTGCTAT
GAAGAAATACTCGAGACTGGGTAAATTTATAAAGGAAAAGAGGTTTAAATGTACTCACAGTTCACAAAGGCTGGGGA
GGCCTCAGAATCATGGTGGAAGGCAAAGAAGGAGCAAAGGTACGTCTTACATGGCTGCAGGAAAGAGAGCACGTG
CAGGGAAACTGCCCTTTATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACAAGAACAGTATGGGAAAAA
CCTGCCCCCATGATTTGATTACCTCCTACCAGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAA
GATGAAATTTGGGTGGGGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAA
GCCATTTACCAAGATAGTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTATGAAAATATGTTGCAGTGGGC
AGCTCAGCAGAGAAGGGGCTACCTGCAAAGAGGCAGGGGCTGGAGGAAAGTTTATAGGGTCCTGCTGAAGGGTG
CTACGTGTGGAATGAGGTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTCTCTAACAATTGTTTCATACAGTAA
TTGTTTCATTATTGTTCTCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGA
CTCCACATAAGGGTGTGGAACTTCATTTCATTATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAAAAA
TTTATTCACAAATATTTAGTCCAAGCCACTGTTACTTATTACCCTCTCTACTTCTGTATGGACTTTTAACTATC
TCTGACACTATTCACTATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATGCA
ACTAATACTCACAGGGAATATATAGAGTCTAGAAGAAAAATACAGGTCCTTAGAGGCTGCTCTGCCAACAAAAC
CATAATGCAGGAACAAACATCACAACCTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAACTG
GAATTTCCAGACTTCCTTTCTGCATTAACCAAGTTTAACTAGATAGTAATGAAATATCCCTCTACTTTATGCTGTG
ATAGTTTATTTATTTATTTGAGAGTTTATTTATTTATTTTATTTGAGACAACAGAGCGAGACTCCGCTCTCA

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FIGURE 4449

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTACCACCGGTTTCGGACACGAGTCCGAGTCGTCCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCCGCTGCGCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCAGATTGAGCTGCTGCAACTGCTGGTTGAGATTGACGCGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGEGTGTCCTGGCTGCATCCTAACTCT
GGTGAACGAATGGATGAAGAATTAACAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGACGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTGAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGCGCCGCTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCTGCTTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGACATGTTTGAGCTGGATCTGCCACTGTGCACTCCATCAT
CAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCAGCAGAACCTGGCTCTGAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCTTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 4450

MSRFFTTGSDSESESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSAKDKRFEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKMNKNNAKALSTLRQKIRKYNR
DFESHITSYQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDEDEDESEDS
EDDEDWDGTGSSSDSDEEEEGKQTALASRFLKKAPTDEDKKAEEKKREDKAKKKHDRKSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNI IASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENLHNADQPLRVGCIITLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEEKGTTEEVCRIYLLRILHTYYKFDYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRI RTCAILCHIYHHAHLSRWYQARDLMLMSHLQDNIOH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQE QEKVERRRQVPFHL
HINLELLECVYLVSAMLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFPADKVRTMLVRKIQEESLRTYLFTYSSVYDSISMETLSDMFELDLPTVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQNLAQLAEKLGSLVENNERVFDHKQGTYYGGYFRDQKDG YRKNEGYMR
RGGYRQQQSQTAY

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FIGURE 4451

GTGCATGCCGTGGGTCTGACGGCTTGAGTAGCGCTAGGGAGAATCCCTGCAGGTAATATTTGACTTTTGCTTCAT
ATTAATCTGAGTGGAATAAAAGGGCCCTCTTCTCTCTCGCTTCCCTGCCGGGCAGGCGCCATGGCGGAAGCC
TCGGCGACGGGCGCTGCGGAGAGGCGATGGCAGCGGCGGAAGGCTCCTCGGGCCCGGCGGGCTTGACTCTGGGC
CGGAGCTTCTCGAACTACCGGCCCTTCGAGCCCCAGGCGTTGGGCCTCAGCCCGAGCTGGCGGCTGACGGGCTTC
TCCGGCATGAAGGGCTGAGGCTGCAAGGTCCCGCAGGAGGCGCTGCTCAAACCTCCTGGCGGGACTGACGGGCGG
GACGTGCGGCCCCGCTGGGCCGGGGCCTGGTGGGTGGCCAGGAAGAGGCGTCCCAGGAAGCCGGCCTGCCGGCA
GGAGCGGGCCCCAGCCCCACCTTTCCAGCCCTGGGCATCGGGATGGACTCCTGCGTCATCCCCCTGAGGCACGGG
GGCCTGTCACTGGTGACAGCACGGACTTCTTTTACCCTTGGTAGAAGATCCCTACATGATGGGGCGCATAGCT
TGTGCCAACGTGCTGAGTGACCTCTACGCCATGGGGATTACTGAGTGTGACAACATGTTGATGTTACTCAGCGTC
AGCCAGAGTATGAGTGAGGAGGAACGCGAAAAGGTAACGCCACTCATGGTCAAAGGCTTTTCGGGATGCGGCTGAG
GAAGGAGGGACGGCAGTGACCGGTGGGCAAACGGTGGTCAACCCCTTGGATTATAATCGGTGGAGTTGCCACTGTA
GTATGCCAACCAATGAGTTTATAATGCCGGACAGCGCCGTCGTTGGGGACGTGCTGGTGTTAACCAACCGTTA
GGAACCCAGGTTGCTGTCAATGCCACCAATGGCTGGATAATCCTGAAAGATGGAATAAAGTAAAGATGGTGGTC
TCCAGAGAAGAGGTGGAGCTGGCCTATCAGGAAGCCATGTTCAATATGGCTACCCCTCAACAGAAGTCTGTCAGGT
TTAATGCACACATTTAATGCCCATGCGGCCACAGATATCACAGGCTTTGGCATTCTAGGACACTCCCAGAACCTT
GCAAAACAACAAAGAAATGAAGTGTCTTTGTTATTTCATAATCTGCCAATAATTGCCAAGATGGCTGCCGTCAGC
AAGGCCAGTGACGGTTTGGGCTTCTTCAAGGAACCTCAGCTGAAACCTCTGGGGGATTACTGATTTGTCTGCCA
AGAGAACAGGCGGCTCGCTTTTGTCTGAAATCAAATCCTCCAAGTACGGAGAGGGGTCACCAAGCGTGGATCGTT
GGCATTGTGGAAGGGAAACCGAACGGCCCGGATCATTGACAAGCCGCGAGTTATTGAAGTCTGCCTCGTGGG
GCCACAGCTGCTGTTCTTGTCTCTGACAGTTCAAATGCCTCCTCTGAGCCTAGCTCGTGGAGTGAAGAACAGAA
GTTGTTTGGACCTTAGAGCCATTGTCCACAATCACGGATGGTCTCAAGAGTTGATTGTAAGAAATTTCCAAAGA
AGGCTGCCTGCATAGTGGTTCCGGCTGCCCTTTCTAGGTGATTGGAATCAGCCCATCTAAAGCAGTCTTTATATG
CATTCCGAGGCCAGAGTAACATTTTGAACCTTTGGGGGGATATTTGTTTCATCACTTGGGTAGAAGAGGAGCAAAAA
TACTTCTGTTTTCTCTTGCCAAAGTAAGATGAAGCTATTCCAGGTTGAGGGATTTTCTTTGCACGGGGTTGATT
AATTTCTGCACAGGGAGTGAGATTATTAAAGTAACACACACAAAGTAAATTGCAAAATGAAAAAATTAGAAG
CAAATGAGTTTTGGACCAATATTGTTGATAAATCTAAATTGTTAAGAGAGATCTTATAATGCAACATCAAATTCT
TTATTCAATTTTACTGAAGTACTGGCTCTTTCTGCTCTGGACAAGAATTGAGCAACTTGTCTGATGACTGGGAA
AGGAGGACCTGCAACCATCTGACTTGGTCTCTGTTAATGACGTCTCTCCCTCTAAACCCCATTAAGGACTGGGAG
AGGCAGAGCAAGCCTCAGAGCCCAGGCCTCAGTGGTCATTAAAGATGTTAAGTCTTTTGCGGCAGATTCTCTGGTGA
TTTGATCAATAAAGAGTAATTTCTTGCTAAATAAATAAAGAAACCTTGTTGAAAACTAAAAAAAAAAAAAAAA
AAA

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FIGURE 4452

GGSLGDGRLRRGDGSGGRLLGPGGLDSGPELLELPALRAPGVGPQPELAADGLLRHEGLRGCKVPQEALLKLLAG
LTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMDSCVIPLRHGGLSLVQTTDFFYPLVEDPYMM
GRIACANVLSLDLYAMGITECDNMLMLLSVSQSMSEEEREKVITPLMVKGFRDAAEEGGTAVTGGQTVVNPWIIIGG
VATVVCQPNEFIMPDSAVVGDVLVLTPLGTQVAVNAHQWLDNPERWNKVKMVSREEVELAYQEAMFNMATLNR
TAAGLMHTFNAAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKMAAVSKASGRFGLLQGTSAETSGGLL
ICLPREQAARFCSEIKSSKYGEGHQAWIVGIVEKGNRTARIIDKPRVIEVLPRGATAAVLAPDSSNASSEPSS

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FIGURE 4453A

CCTCTTTACCCCTGTCTAGGTTGCCAGCAAATCCCACGGGCCCTCTGACGCTGCCCCCTGGGGCCACAGGTCCCTC
GAGTGTCTGGAAGGATGAAGGATTCTGCATCACTGTGATGGCCATGGCGCTGCTGTCTGGGTTCTTTTCTTCGC
GCCGGCCTCGAGCTACAACCTGGACGTGCGGGGCGCGCGGAGCTTCTCCCCACCGCGCGCCGGGAGGCACTTTGG
ATACCGCGTCTCTGCAGGTGCGAAACGGGGTTCATCGTGGGAGCTCCAGGGGAGGGGAAACAGCACAGGAAGCCTCTA
TCAGTGCCAGTCCGGGCACAGGACACTGCCTGCCAGTCACCCTGAGAGGTTCCAACCTATACCTCCAAGTACTTGGG
AATGACCTTGGAACAGACCCACAGATGGAAGCATTTTGGCCTGTGACCCTGGGCTGTCTCGAACGTGTGACCA
GAACACCTATCTGAGTGGCCTGTGTTACCTCTTCCGCCAGAATCTGCAGGGTCCCATGCTGCAGGGGCGCCCTGG
TTTTCAGGAATGTATCAAGGGCAACGTAGACCTGGTATTTCTGTTTGATGGTTGATGAGCTTGCAGCCAGATGA
ATTTCAGAAAATTCTGGACTTCATGAAGGATGTGATGAAGAACTCAGCAACACTTCGTACCAGTTTGCTGTCTGT
TCAGTTTTCCACAAGCTACAAAACAGAATTTGATTTCTCAGATTATGTTAAATGGAAGGACCCTGATGCTCTGCT
GAAGCATGTAAGCACATGTTGCTGTTGACCAATACCTTTGGTGCCATCAATTATGTCGCGACAGAGGTGTTCCG
GGAGGAGCTGGGGGCCCGCCAGATGCCACCAAAGTGCTTATCATCATCACGGATGGGGAGGCCACTGACAGTGG
CAACATCGATGCGGCCAAAGACATCATCCGTACATCATCGGGATTGGAAGCATTTTCAGACCAAGGAGAGTCA
GGAGACCTCCACAAATTTGCATCAAAACCGCGAGCGAGTTTGAAAATTCTGGACACATTTGAGAAGCTGAA
AGATCTATTCAGTGTGAGCTGCAGAAGAAGATCTATGTCTATTGAGGGCACAAGCAAACAGGACCTGACTTCCTTCAA
CATGGAGCTGTCTCCAGCGGCATCAGTGTGACCTCAGCAGGGGCCATGCAGTCTGGGGGCGTAGGAGCCAA
GGACTGGGCTGGGGGCTTTCTTGACCTGAAGGCAGACCTGCAGGATGACACATTTATTGGGAATGAACCATTGAC
ACCAGAAGTGAGAGCAGGCTATTTGGGTTACACCGTGACCTGGCTGCCCTCCCGGCAAAAGACTTCGTTGCTGGC
CTCGGGAGCCCCCTCGATACCAGCACATGGGCCGAGTGTCTGTTTCAAGAGCCACAGGGCGGAGGACACTGGAG
CCAGGTCCAGACAATCCATGGGACCCAGATTGGCTCTTATTTCCGTGGGGAGCTGTGTGGCGTCGACGTGGACCA
AGATGGGGAGACAGAGCTGCTGCTGATTGGTGCCCCACTGTTCTATGGGGAGCAGAGAGGAGGCCGGGTGTTTAT
CTACCAGAGAAGACAGTTGGGGTTTGAAGAAGTCTCAGAGCTGCAGGGGGACCCCGGCTACCCACTCGGGCGGTT
TGGAGAAGCCATCACTGCTCTGACAGACATCAACGGCGATGGGCTGGTAGACGTGGCTGTGGGGGCCCTCTGGA
GGAGCAGGGGGCTGTGTACATCTTCAATGGGAGGCACGGGGGGCTTAGTCCCAGCCAAGTCAGCGGATAGAAGG
GACCCAAGTGCTCTCAGGAATTCAGTGGTTTGGACGCTCCATCCATGGGGTGAAGGACCTTGAAGGGGATGGCTT
GGCAGATGTGGCTGTGGGGGCTGAGAGCCAGATGATCGTGTGAGCTCCCGGCCCGTGGTGGATATGGTCAACCCT
GATGTCTTCTCTCCAGCTGAGATCCCAGTGATGAAGTGGAGTGTCTCTATTCAACCAGTAAACAAGATGAAAGA
AGGAGTTAATATCACAATCTGTTTCCAGATCAAGTCTCTCATCCCCCAGTTCCAAGGCCGCTGGTTGCCAATCT
CACTTACACTCTGCAGCTGGATGGCCACCGGACCAGAAGACGGGGGTTGTTCCCAGGAGGGAGACATGAACTCAG
AAGGAATATAGCTGTCAACCACAGCATGTGATGCACTGACTTCTCATTTCATTTCCCGGTATGTGTTCAAGACCT
CATCTCCCCCATCAATGTTTCCCTGAATTTCTCTCTTTGGGAGGAGGAAGGGACACCGAGGGACCAAAGGGCGCA
GGGCAAGGACATACCGCCCATCTGAGACCCTCCCTGCACTCGGAAACCTGGGAGATCCCTTTTGAGAAGAAGCTG
TGGGGAGGACAAGAAGTGTGAGGCAACTTGAGAGTGTCTTCTCTCCTGCAAGATCCAGAGCCCTGCGTCTAAC
TGCTTTTGCCAGCCTCTCTGTGGAGCTGAGCCTGAGTAACCTTGAAGAAGATGCTTACTGGGTCCAGCTGGACCT
GCACTTCCCCCGGGACTCTCCTTCCGCAAGGTGGAGATGCTGAAGCCCCATAGCCAGATACCTGTGAGCTGCGA
GGAGCTCCTGAAGAGTCCAGGCTTCTGTCCAGGGCATTATCTTGCAATGTGAGCTCTCCATCTTCAAAGCAGG
CAATGTGACCTGTAAACATGAGGACTCAGACCTCCTGGAGGACAACCTCAGCCACTACCATCATCCCCATCCTGTA
CCCCATCAACATCCTCATCCAGGACCAAGAAGACTCCACACTCTATGTGAGTTTCAACCCCAAGGCCCAAGAT
CCACCAAGTCAAGCACATGTACCAGGTGAGGATCCAGCCTTCCATCCACGACCACAACATACCCACCCCTGGAGGC
TGTGGTTGGGGTGCCACAGCCTCCAGCGAGGGGGCCATCACACACAGTGGAGCGTGCAGATGGAGCCTCCCGT
GCCCTGCCACTATGAGGATCTGGAGAGGCTCCCGGATGCAGCTGAGCCTTGTCTCCCGGAGCCCTGTTCCGCTG
CCCTGTGTCTTCAGGCAGGAGATCCTCGTCCAAGTGATCGGGACTCTGGAGCTGGTGGGAGAGATCGAGGCCCTC
TTCCATGTTTACGCTCTGCAGCTCCCTCTCCATCTCCTTCAACAGCAGCAAGCATTTCCACCTCTATGGCAGCAA
CGCTCCCTGGCCAGGTTGTGATGAAGGTTGACGTGGTGTATGAGAAGCAGATGCTCTACCTCTACGTGCTGAG
CGCATCGGGGGCTGCTGCTGCTGCTCATTTTTCATAGTGTGTACAAGGTTGGTTTCTTCAAACGGAACCT
GAAGGAGAAGATGGAGGCTGGCAGAGGTGTCCGAATGGAATCCCTGCAGAAGACTCTGAGCAGCTGGCATCTGG
GCAAGAGGCTGGGGATCCCGGCTGCCTGAAGCCCCCTCCATGAGAAGGACTCTGAGAGTGGTGGTGGCAAGGACTG

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FIGURE 4453B

AGTCCAGGCCTGTGAGGTGCAGAGTGCCAGAACTGGACTCAGGATGCCCAGGGCCACTCTGCCTCTGCCTGCAT
TCTGCCGTGTGCCCTCGGGCGAGTCACTGCCTCTCCCTGGCCCTCAGTTCCCTATCTCGAACATGGAACCTCATT
CCTGCCTGTCTCCTTTGCAGGCTCATAGGGAAGACCTGCTGAGGGACCAGCCAAGAGGGCTGCAAAAGTGAGGGC
TTGTCATTACCAGACGGTTCACCAGCCTCTCTTGGTTTCCTTCCCTTGGAGAGAATGTCTGATCTAAATGTGGAG
AAACTGTAGTCTCAGGACCTAGGGATGTCTGGCCCTCACCCCTGCCCTGGGATGTCCACAGATGCCTCCACCCC
CCAGAACCTGTCTTGCACACTCCCCTGCACTGGAGTCCAGTCTCTTCTGCTGGCAGAAAGCAAATGTGACCTGT
GTCCTACGTGACTGTGGCACACGCCTTGTCTTGGCCAAAGACCAAATTCCTTGGCATGCCTTCAGCACCCCTG
CAAAATGAGACCCCTCGTGGCCTTCCCCAGCCTCTTCTAGAGCCGTGATGCCTCCCTGTTGAAGCTCTGGTGACAC
CAGCCTTTCTCCAGGCCAGGCTCCTTCCTGTCTTCTTGCATTACCCAGACAGCTCCCTCTGCCTGAACCTTCC
ATCTCGCCACCCCTCCTTCCTTGACCAGCAGATCCCAGCTCACGTACACTTGGTTGGGTCCTCACATCTTTCAC
ACTTCCACCAGCCTGCACTACTCCCTCAAAGCACACGTATGTTTCTTCATCCGGCAGCCTGGATGTTTTTCCC
TGTTTAATGATTGACGTACTTAGCAGCTATCTCTCAGTGAAGTGTGAGGGTAAAGGCTATACTTGTCTTGTTCAC
CTTGGGATGATGCCTCATGATATGTGAGGGCGTGGGACATCTAGTAGGTGCTTGACATAATTTCACTGAATTAAT
GACAGAGCCAGTGGGAAGATACAGAAAAAGAGGGGCTGGGCTGGGCGCGGTGGTTACGCTGTAAATCCAGCAC
TTTGGGAGGCCAAGGAGGGTGGATCACCTGAGGTGAGGAGTTAGAGGCCAGCCTGGCGAAACCCCATCTCTACTA
AAAATACAAAATCCAGGCGTGGTGGCACACACCTGTAGTCCCAGCTACTCAGGAGGTTGAGGTAGGAGAATTGCT
TGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCGCCATTGCACTCCAGCCTGGGCAACACAGCGAGACT
CCGTCTCAAGGAAAAATAAAAATAAAAAGCGGGCACGGGCCCGTGACATCCCCACCCTTGAGAGGCTGTCTTCTC
AGGCTCTGCCCTGCCCTAGCTCCACACCCTCTCCAGGACCCATCACGCCTGTGAGTGGCCCCCACAGAAAGAC
TGAGCTCAAGGTGGGAACCACGTCTGCTAACTTGGAGCCCCAGTGCCAAGCACAGTGCCTGCATGTATTTATCCA
ATAAATGTGAAATCTGTCC

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FIGURE 4454

CGCGCTGGAGAGGCGCGGGGTCAAGACGTCCGGCCTCGGGGGCCCGGGCTGGGGCCGCGAGTCCCCTGGGCGGCG
CTGAGCGGGCGGGAGGCGGGGGCCCGGGCTCGGGGCAACCGAGGCCGGGTGCGGGGATCGGCCGCCATCGCCGC
CGCCGCTGCACTGGGAGCCCCGCGGGGATGGAGCGGGAGGCGTTGCCGTGGGGCCTCGAGCCCCAGGATGTGCAGA
GTTCTGACGAAATCAGGAGCCCCGAAGGGTACCTCAGAGGCAACATGAGTGAGAATGAGGAAGAGGAAATTTCTC
AGCAAGAAGGCAGTGGGGACTATGAAGTCGAAGAGATAACATTTGGGCTTGAACCCAGAGCCCTGGGTTTGAGC
CACAAAGCCCAGAGTTTGAACCCCAAAGCCCCAGATTTGAGCCTGAAAGCCCCGGGTTTGAGTCCCGAAGCCCTG
GGCTTGCGCCCCAAGCCCTGAGTTTGACCCAGAAGCCCTGAATCAGATTCTCAGAGCCCTGAGTTTGAATCCC
AGAGCCCTAGGTATGAACCCCAAAGCCCTGGCTATGAACCTCGGAGCCCCGGGTATGAACCCCGAGCCCTGGCT
ATGAATCTGAGAGCTCTAGATATGAATCCCAGAACACTGAGCTCAAAACCCAAAGCCCAGAATTTGAAGCTCAAA
GTTCCAAATTCAGGAAGGTGCGGAGATGCTTCTGAACCCCGACGAAAAGAGTCCTTTGAATATCTCCGTAGGAG
TTCACCCCTGGACTCCTTCACTCAGGGGTTTGGGGAGCAGCCACAGGGGACCTGCCCATAGGGCCACCTTTTG
AGATGCCACAGGGGCCCTGCTGTCTACACCGCAGTTTGAGATGCTTCAGAATCCCCTGGGTCTCACAGGAGCCC
TTCGAGGTCCAGGTGCGCGGGGTGGCCGGGCCAGGGGTGGGCAGGGCCCTCGGCCTAACATCTGCGGCATCTGCG
GGAAGAGCTTCGGGCGGGGCTCCACCCTGATCCAGCACCAGCGCATCCACACCGGTGAGAAGCCCTACAAATGTG
AGGTCTGCAGCAAGGCCCTTCTCCAGAGCTCTGACCTCATCAAACACCAGCGCACCACACTGGCGAGCGGCCCT
ACAAATGTCCCGTTGCGGCAAGGCCTTCGCCGACAGCTCTTACCTGCTTCGCCACCAGCGCACTCACTCTGGCC
AGAAGCCCTACAAGTGCCACATTGTGGCAAGGCCTTCGGCGACAGCTCCTACCTCCTGCGACACCAGCGCAGCC
ACAGCCACGAGCGGCCCTACAGCTGCACCGAGTGGGCAAGTGCTATAGCCAGAACTCGTCCCTGCGCAGCCATC
AGAGGGTGACACCGGTGAGAGGCCCTTCAGCTGTGGCATCTGCGGCAAGAGCTTCTCCAGCGGTGCGGCCCTTA
TCCCCATGCCCGCAGCCACGCCCGGAGAAGCCCTTCAAGTGCCCTGAGTGCGGCAAGCGCTTTGGCCAGAGCT
CGGTGCTGGCCATCCACGCCCGCACCCACCTGCCAGGCCGACCTACAGCTGCCCCGACTGCGGCAAGACCTTCA
ATCGCTCCTCACTCTCATCCAGCACCAGCGCTCCACACGGGCGAGCGGCCCTACAGGTGCGCGTGTGCGGCA
AGGGCTTCTGCGCTCCTCCACGCTTCTGCAGCATCACCGGTCCACAGTGGCGAGCGGCCCTACAAGTGCGATG
ACTGCGGAAAGGCCTTCTCCAGAGCTCCGACCTCATCCGCCACCAGCGGACCCACGCGGCGGGCCGGCGCTGAC
CTGGGGCCCCAGCAGGGGTGGGAGGTGTGGGCAGAAGATAAGGGGCCAGGGAGCTAGAGGAACCTTTAGGGAGGA
TAGTGGAGAAGCCGAGGAGAATGGAGGAGCTGAGGATGCTGGAAGAAGAGAACCAGGGTGGAGGAAGTGACATG
CCCTGGAGACTTGTGGGAAGTGGGTGGAGGGAGGCCAGGCCGGCAGCGGGAGGCCCTGGGAGAAATGGAGAGAG
GTCAGCGGAGGGCTGGCCTCAGCCGCGGCTCCTTGGTGGGTGCCTGGCTTGCAACTGCTAGAGCAGGGAGGGGG
GAGGGCAGGGGATTACCTAATTAGAGTGGGTAGCTTAGATTGGTAGCTGCTGAAACTCTCGTTGAGTCAGGAGC
GGGTAAAAGGTAGGTGGGTGGGGAGTGGGGCCCCGGGGTGGGGCCTGGGCCTTGCGTGCAACCCAGCCTCC
CTCTTCTTCTCAGGCTTTGGAGCCCTGAGTTTGAGTTCAATAAAAACCTTTATGTGGTAAAAA

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FIGURE 4455

MRSPEGYLRGNMSENEEEEISQQEGSGDYEVVEEIPFGLFQSPGFEPQSPEFEPQSPRFEPESPGFESRSPGLVP
PSPEFAPRSPESDSQSPEFESQSPRYEPQSPGYEPRSPGYEPRSPGYESESRYESQNTLKTQSPEFEAQSSKF
QEGAEMLLNPDEKSPLNISVGVHPLDSFTQGFGEQPTGDLPIGPPFEMPTGALLSTPQFEMLQNPLGLTGALRGP
GRRGGRARGGQGPRPNICGICGKSFGRGSTLIQHQRHTGEKPYKCEVCSKAFSQSSDLIKHQRHTHTGERPYKCP
RCGKAFADSSYLLRHQRTHSGQKPYKCPHCGKAFGDSSYLLRHQRTHSHERPYSCTECGKCYSQNSSLRSHQRVH
TGQRPFSCGICGKSFSQRSALIPHARSHAREKPFKCPECGRFGQSSVLAIHARTHLPGRITYSCPDGKTFNRSS
TLIQHQRSHHTGERPYRCAVCGKGFCRSSTLLQHHRVHSGERPYKCDDCGKAFSQSSDLIRHQRTHAAGR

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FIGURE 4456

GGCACGAGGCTTTCTCGGGCGCAGGAGGTTCCGCGAGGCCAGGCCAGGCCAGGGGAGGCAGCCGATCCGTCGTCG
GGGTTGACAGTTACCAATGGCGCCGCTCTGGCCCCGCTCCCTCCCCGGGACCCAAACGGGGCCGGACCCGAGTGG
AGGGAGCCGGGGGCTGTGAGCTTCGCGGACGTGGCCGTGTACTTCTGCCGGGAGGAGTGGGGCTGCTTGCGGCCA
GCGCAGAGGGCCCTGTACCGGGACGTGATGCGGGAGACCTACGGCCACCTGAGCGCTCTCGGAATCGGAGGCAAC
AAGCCAGCTCTCATCTCCTGGGTGGAGGAGGAGGCCGAAGTGTGGGGTCCGGCTGCCCAGGATCCGGAGGTGGCG
AAATGTGACACACAAACGGACCCAGCAGATTCCAGAAACAAGAAAAAGGAAAGACAAAGGGAAGGGACGGGAGCC
CTGGAGAAGCCCGACCCCTGTGGCCGCCGGGTCTCTGGGCTGAAGTCTCCCCAAGCCCCCTCGGCCGGGGCCCCCT
TATGGTTGGGAGCAGCTGTCCAAGGCACCGCACCGGGGACGCCCTCCCTCTGTGCCACCCCCCTGTCCCCGA
GCTGACCAGCGTCATGGCTGCTACGTGTGCGGGAAGAGCTTTGCCTGGCGCTCCACACTGGTGGAGCACGTCTAC
AGTCACACTGGCGAGAAGCCCTTCCACTGCACTGACTGCGGCAAGGGCTTCGGCCACGCTTCTCTCCCTGAGCAA
CACC GGCCATCCATCGTGGGGAGCGGCCACCCTGTCTGGAGTGTGGCCGGGCTTCACGCAGCGCTCGGCG
CTGACTTCGCACCTGCGCGTCCACACCGGCGAGAAACCTATGGCTGCGCCGACTGTGGCCGCGCTTCAGCCAG
AGCTCTGCCCTCTACCAGCACCGGCGGTGCACAGCGGCGAGACCCCTTCCCCTGCCCGGACTGTGGCCGCGCC
TTCGCTACCCCTCGGACCTGCGGCGCCACGTGCGCACCCACACCGGCGAGAAGCCCTACCCGTGCCCGGACTGC
GGGCGCTGCTTCCGCCAGAGCTCGGAGATGGCAGTCCACAGGCGCACCCACAGCGGCGAGAAGCCCTACCCCTGC
CCGAGTGC GCGCCGCTTTGGCCAGAAGTCAGCCGTGECCAAACACCAAGTGGGTTTCATGCGCCCGGGGCCGG
GGCCACAGGGGCGGGTTCGCCGGGCTGTGTCTGTGACCCTGACCCTGGCCACGGAGACCTGGACCCGCCCGTG
GGCTTCCAGCTGTACCCGGAGATATTCCAGGAGTGTGGTGACGGCCTTAAAAGTGACTATCTAGACATTACGGG
AGGCCCCGAGATGGGCTCAGGGGCCGAACCTCTGCGCGGCGCTGCAGGGAGGTCCAGAACTAGGGCAAGAGCT
GGCCCTGGGGTGGGACAGTCTGATCTTGGGCCCTTAGCAGCCTCCTCTGCCAGCACCTTGCTCCCCACTGCCCA
GGGCTCTCCAAGGCCCTCTACTGAGGCAGGGCTGAGTTGAGAACCCCGAGACCTACATAAGGGGAACCAAAAG
CTGTTTCTCAGCCAGAGGTGCTAAGAGGACTGAGGTAGAGGAGAACCTTGTTTTACCCATTGTCTTTTTTAAATT
TTTTATCATTATTTTATTCTTGTGACCCTCCAGAACACAATACTCATTGTCTTTTTTATTATTTATTTATTTA
TTTCTGAGACAGCTTCTGTCTGTCAACCCAGGCTGGAGTGCAGTGGTGTGAACAGGGCTAACTGCAGCCTCAAC
CTGCAGTGCTCAAGGAATCCTCTCCCATCAGCCTTCCAAATATCTGAGACTACAGGCGGGCAACACTACGGCCAG
CTAATTTTTTAAATTTTACATAGAGATGAGGTTCTCACTGTTGTCCAGGCTGGTCTCAAACCTCCTTGGCTGAAGTG
ATCCTGTCTGCTCTCGGCTTCCGCAAGTGTGCGGATTACAGGCGTGAGCTACCAACATGCCTGGCTTCCATTGTCTT
TGTTGTGTGTGTGTGTGTGATGGGGTTTTGCTCTTGTGCCCAGGCTGGAGTGCAATAGCGCAATCTCAGCTCACT
GCAACCTCTGCCTCCAGAGTTCAAGCAATTCTCCTTCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCACC
ACCTCCATTGTCTTTTTACTGCCCAAGTTAAAATCCTGTGACTGTGTACTGGATCTGGCCTGCGGTTGTCTATTT
TATTGATCTGAGTCCAGGCAGTGTTTTTAAGTGATATGAGTTAGTAGTGAATTTGAAAAGGATATTTTACAACC
AAATACAGGTTTTCTGGTGTCTTTTGAAAAATCCAAAGATTTGGCAACTCGACCTAGGCTCCGACAAAACACAG
TTGTTGGGAGCTGAGCCGGAGCCAGAACTCACAATTCACCGTGGCCCGGCCACCCATCCCCACCACTCCCGTGGG
CTCCTGACCAAGCACCAAGTGCATTTCATCATGGCTTGCTTTTAGTGTTTTGGTGTCTTAAAGTACAGCG
AAGAAGAAAGGGAAGTATTTCTTAGACCATGTCTCTGTCCAAATAGGCCTTCCATCTGGCATTTC CGCTCAT
TTATATGACTTGCTGAGTTCCTATGGTCATTTGAGTTGCAACAGTGGTCTGTAGCACTCAGGTTTTCTGGAGT
TGGAGAGAAAGGGTGCCAAGAGAGAAGTAAAAGTTGGTTTTATTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4457

MAPPLAPLPPrDPNGAGPEWREPGAVSFADVAVYFCREEWGCLRPAQRALYRDVMRETYGHL SALGIGGNKPALI
SWVEEEAELWGFAAQDPEVAKCQTQTDPADSRNKKKERQREGTGALEKPD PVAAGSPGLKSPQAPSAGPPYGWEQ
LSKAPHRGRPSLCAHPPVPRADQRHGCVCGKSFAWRSTLVEHVYSHTGEKPFHCTDCGKGFGHASSLSKHRAIH
RGERPHRCLECGRAFTQRSALTSHLRVHTGEKPYGCADCGRRFSSALYQHRRVHSGETPFPCPDCGRAFYPS
DLRRHVRTHTEKPYPCPDCGRCFRQSSEMAVHRRTHSGEKPYPCPQCGRRFQKSAVAKHQVHRPGAGGHRGR
VAGRLSVTLTPGHGDLDPVVGFLYPEIFQECG

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FIGURE 4458

CTGGGGATCTACGCTGAGTTCGGAGATGCTCCAGCTCGGGCCGCCCTGTCTGAGCGGAGCTTTGCGGCGCTGAA
GCTTACAGGGGAAGGAAAAGCCTCGCCCGGCGTCTGATTGGCGGAACCGCGCTGCCGCAGCCTGGGATTCCCCAG
GGACCCCCCGGAGCCGCGCGTCTCCCATGGACTTGCCCGGGGACTCCAGCCCGCTGGCCAGCCGCGTCTGTG
CCGCCAGCCTCTGACTCGAGCATTATGGGGAGCCAGGAGCCCGAAACGGCCGAGGCTGCAGCTCCCGGGGGCCCC
TTCTCCCTGGAAAAGGCCTCTCGGCGGGTCTTGGCCGTGGTGCTAGAGATGTCATGGCTGTTACATGGTCCC
CGTGGTGCCCTCAAAGCAGACCTCCATACCACAGCACCACAGCTACCATCAGGATCCTGTCCACAGGCAGCCGCC
TGCCTCGCCACCCCGGAGCCGGGTGGTCTCGCAGGCCAGGCCTCCCGACCCTCTGTGTTGTGTGCGGAGCC
CTTGAGCCGCATCCACCGGACCTCTTCCACCCTGAGGCGGCGATCAAGGACAACCCCTGGCCAGAGGAGGGCCC
TTCACAAAAGGTGGACCGGGCCCCCAGCCACCCTGGTGGTGATGCTGGAAGACATCGCCAGTCTTAGACCCCC
CGCTGAGGGCTTCATTGATGAGACCCCAACTTCATCATCCAGCACAAAGAGCTGAGCCCATGAGGATAGTTTCG
CCAGCCAACGCCTCCACCTGGGGACCTAGAACCCCATTCAGCCATCTGCTCTGCCTGCAGACCCCTCTGGAGAG
CCCACCAACAGCCCCAGATCCTGCTCTGGAGCTCCCATCCACCCACCACCGTCCAGCCTTTTACGCCCCCGCCT
CAGTCCCTGGGGCTTGCCCCGCTCTTCCGTTCGCTCCGCTCCAAGCTGGAGAGCTTTGCTGACATCTTCCTCAC
GCCCCACAAAACCCACAGCCCCACCCCGTCCCCCCTGAAGCTGGAGTTGAAGATCGCCATCTCAGAGGC
CGAGCAGTCTGGGGCTGCTGAGGGCACTGCGTCTGTGAGCCCCGGCCCCCAATCCGCCAGTGGCGAACTCAGGA
CCACAATACCCAGCACTTCTCCCTAAGCCCTCTCTGGGCCGAAGCTACTCCTGCCCTGATCTGGGGCCCCCTGG
CCCAGGTACCTGCACCTGGCCACCTGCTCCACCCCAACCAAGCCGACCACGGCCGCGCGGCACACTGTGGGTGG
TGGGGAAATGGCCCGAGCCCGCCACCCCTCGGCCCTGTCTCCGGAAGAGGTCTTCCCTCTCGGAGGAGTGGG
AGCCTCCCTTCTCTACCAATCTTGCTCGTCCACGGCATCCACTTCCTTCTCCGAACCAGCAGAACCCAGGTT
GGGTTCAACCAAAGGGAAGGAGCCAAGAGCCTCAAAGGACCAGGTGCTTTTCAAGACCTGAGACCAAGACCATGGG
AAAGTTTCTCGATTGAGAAATACGCAGAACACCAGCCCGTCTCAGCTAAACCTTACACCAATGGGACTGCCTCG
ACCAATCAGGTTGAACAAGAAGGAGTTTCTGAGGAAACCCCGGAGCGCAATGGGACTCTGATTTTACACAGCTCAAGGAA
CAGGAGGACCTTTGAGACCATCTTTGAGGAACCCCGGAGCGCAATGGGACTCTGATTTTACACAGCTCAAGGAA
GCTCCGGCGGGCTGTGGAATTTGAGGACAGCAGCCTTCTCGATCACGAAGACCGTCCCGTGGGGTCCGGGCTGC
AGGGGGCAGGACTGTTTCTCCCAATGTGGCCCCAGCCCTGATGTGGGGCCCCCTGCTCCAGCAGCGGCTGGAGGA
GCTAGATGCCTTGCTCCTGGAGGAAGAAACAGTAGATCGGGAGCAGCCCCACTGGACCTAGGTGCCCCATCTGTT
GGTCATCCATCCTGAAGGGACAGGAAACCTCCAGGCAGTTATTTTTTTTCTCTATATTTCTAGTAAAGTTTT
CGATATGTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4459

MDLPGDSSPPGQFRLCRQPLTRALWGARS PKRPRQLPGAPS PLEKASRRVLAVVLEDVMAVHMFVVPVPSKQTSI
PQHHSYHQDPVHRQPPASPPRQAGWSSQARPPDPLCLCREPLSRIHRTSSTLRRRSRTTPGPEEGPSQKVDRAPQ
PTLVVMLEDIASPRPPAEGFIDETPNFIIPAQRAEPMRIVRQTPPPGDLEPPFQPSALPADPLESPPTAPDPAL
ELPSTPPSSLLRPRLS PWGLAPLFRSVRSKLESFADIFLTPNKTPQPPPSPPMKLELKIAISEAEQSGAAEGT
ASVSPRPPIRQWRTQDHNT PALLPKPSLGRSYSCPD LGPPGPGTCTWPPAPPQPSRPRPRRHTVGGGEMARAPP
PRPCLRKEVFPLGGVGASPSLTSCSSTASTSFSEPAEPRLGSTKGKEPRASKDQVLSEPETKTMGKVSFRIRR
TPARPQLNLTPMGLPRPIRLNKKEFSLEEIYTNKNYQSP TTRRTFETIFEPRERNGTLIFTSSRKLRRAVEFRD
SSLPRSRPSRGVRAAGGRTVPPNVAPSPDVGP LLQORLEELDALLLEEETVDREQPHWT

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FIGURE 4460A

GCTAGGCTGACCCTCCTGCAGGTGACGGAAGTACCGCCTCCTCCCGTTTGACGCCCCCTCAGGGGACCCTGCATCG
CTCCAGCCGCCGCGGCCATGTCTGGGCCAGGCAACAAACGCGCCGCCGCGACGGGGGCTCAGGGCCCCGGAAA
AGAAGCTGAGTCGTGAGGAGAAGACCACCACGACTCTTATCGAGCCCATTCGTCTTGAGGCATCTCTTCCACGG
AGGAGATGGACCTGAAGGTACTACAGTTCAAGAACAAGAACTGGCAGAGCGGCTGGAACAACGGCAGGCTGTG
AAGATGAACTCCGAGAACGAATTGAGAAGTTGGAGAAGCGGCAGGCCACAGATGATGCCACACTCCTCATCGTCA
ATCGCTACTGGGCCCAGCTGGATGAACTGTGGAAGCCCTTCTCCGATGCCATGAGAGCCAGGGGGAGCTGTCTT
CAGCGCCTGAGGCACCTGGGACCCAGGAGGGGCCAACATGTGATGGGACTCCTCTCCAGAGCCGGGGACATCAG
AGCTGAGAGACCCCTTGCTGATGCAGCTGCGGCCCCCTCTCAGTGAGCCGGCCTTGCGTTTTGTGGTGGCACTGG
GTGCCAGCAGCAGTGAGGAGGTGGAGCTGGAGCTGCAAGGCCGAATGGAGTTCTCCAAGGCAGCTGTGTCTCGTG
TGGTAGAGGCCTCAGACCGCTACAGCGCCGGGTGGAGAACTCTGTACGCGAGTGACAGCCGAGGGGACAGTG
AGCCCCCTCAGTGAGCGGCTCAGGCACACACCCGAGAGCTGGGCGGTGAGAACC GGCGACTGCAGGACTTGCCCA
CTCAGCTGCAGGAGAAACACCACCGCATCTCATTGGAGTACTCCGAGCTCCAGGATAAAGTGACATCGGCAGAGA
CCAAGTGCTGGAGATGGAGACAACAGTGGAGGACTTGCACTGGGACATCGAGAAGCTGCGGAAGCGAGAGCAAA
AGCTCAATAAGCACCTGGCAGAGGCCTTAGAGCAGCTTAAGTCTGGCTACTATGTATCTGGGAGCTCCTCAGGCT
TCCAGGGGGGCCAGATCACACTCAGCATGCAGAAGTTTGAGATGCTGAATGCAGAGTTAGAGGAAAACAGGAAC
TGGCCAACAGCCGATGGCAGAGCTGGAGAACTGCAGGCCGAATTCAGGGGGCTGTGCGGACCAATGAGCGCC
TCAAGGTGGCCCTGCGGAGCCTTCTGAGGAGGTAGTGCGGGAGACGGGGGAGTACCGCATGCTGCAGGCCCAAT
TCTACTGCTCTACAACGAGTCTCTGCAAGTGAAGACCCAGCTAGACGAGGCTCGGGGCCTGCTGCTGGCCACAA
AGAACTCCACCTGCGACACATCGAGCACATGGAGAGCGACGAGCTGGGGCTGCAGAAGAGCTACGCACAGAGG
TCATTCAGCTGGAGGACACGCTGGCCAGGTACGCAAGGAGTATGAGATGCTGCGCATCGAGTTTGAGCAGAATC
TGGCGGCCAACGAGCAGGCGGGGCCCATCAACCGTGAGATGCGCCACCTGATTAGTAGTCTTCAAAACCACAACC
ACCAGCTAAAAGGGGACGCCCAGCGATACAAGCGGAAGCTTCGAGAAGTACAAGCTGAGATGGCAAGCTCCGGG
CCCAGGCCAGTGGCTCTGCCCACTCCACCCCAACCTGGGCCACCCAGAGGATTCTGGCGTCAGTGCCCCAGCCC
CAGGGAAAGAGGAGGGTGGGCCAGGCCTGTGAGTACCCCCGACAACAGAAAGGAGATGGCTCCAGTGCCCTGGCA
CCACCACTACTACCACTTCAGTGAAGAAGGAGGAGCTGGTCCCCTCTGAAGAGGACTTCAGGGGTATAACCCCTG
GGGCCCAGGGCCCTTCTCCCGGGGCCGAGAACCTGAGGCCAGGCCCAAGCGGGAGCTTCAGGAACGGGAAGGTC
CCAGCCTAGGACCTCCACCTGTAGCTCCGCTCTCTCAAGGGCTGATCGGGAGAAGGCCAAGGTGGAAGAAACCA
AGCGGAAGGAATCAGAACTCCTCAAGGGTCTCCGAGCAGAGCTCAAGAAGGCCCAGGAGAGCCAGAAGGAGATGA
AACTGCTGCTGGATATGTACAAGTCAGCGCCCAAGGAGCAGCGGGATAAGGTGCAGCTCATGGCAGCGGAACGCA
AGGCTAAGGCCGAGGTTGATGAGCTGCGGAGCCGCATCCGGGAATTGGAGGAGAGGGATCGAAGGGAGAGCAAGA
AGATCGCGGATGAGGATGCCCTGCGGCGCATTCGGCAGGCAGAGGAGCAGATAGAACACCTGCAGCGCAAGCTGG
GTGCCACCAAGCAGGAGGAGGAGGCTGTGCTCTCAGAGATGGATGTGACAGGTGAGGCTTTTGAGGACATGCAGG
AACAGAACGGGCGGTGCTACAGCAGTTGCGGGAAAAGGATGATGCCAACTTTAAGCTAATGTGAGAGCGGATCA
AGGCCAACAGATTCAAGCTGCTGCGGGAGGAGAAGGATGAGTTGGGCGAGCAGGTCCTTGGCCTCAAGTCCC
AGGTGGATGCCAGCTGCTGACTGTGCAAGCTAGAGGAGAAGGAGCGAGCCTTGCAAGGCGAGCCTCGGGGGTG
TGGAGAAGGAGCTGACGCTGCGCAGCCAAGCCCTGGAGCTCAACAAGCGGAAGGCTGTAGAAGCCGCCAGCTGG
CCGAGGACCTGAAGGTGCAGCTGGAGCACGTGCAGACTCGGCTGCGGGAGATCCAGCCCTGCCTGGCAGAGAGCC
GGGCTGCTCGTGAGAAAGAGAGCTTCAACCTCAAGAGGGCTCAGGAGGACATCTACGGCTGCGGCGCAAGCTGG
AAAAGCAGAGGAAGGTGGAGGTCTACGCAGATGCCGACGAAATCCTCCAGGAGGAGATCAAGGAGTACAAGGCGC
GGTTGACCTGCCCTGTGTAAACACCCGCAAGAAGGATGCAGTCCTTACCAAGTGCTTCCACGTTTTCTGCTTCG
AGTGCGTGCGGGGCCGCTATGAGGCCCGCCAGAGGAAGTGCCCCAAGTGCAACGCGGCCCTTTGGTGCCACGACT
TCCATCGTATCTACATCAGCTGAACCTGAACTCAGGGGACTCTGGAACACCATGGACCCTGGGGGCTGTGCCCC
CATCTCCTCCCCACCCAGGTCTAGTGGCCCCACCTCCATTCCGGACCCCATGGGCCAGCCCCCTGCCCATCTA
GTTGGTTTGGGGACCCTGGTGATGTAGTGGGATGGGATCAGCCAAGCTTCGTTCCATCTTTTCTAAAGGTC
AGAGCTGCAGCCTAGGGGGCACTGCCCTACAGAAAAGGTCTGCCTGAGAGGCCTGAGGAGCCAGAGCACTTGAC
TGAGCTTCCGGAAACTGGCCCTAACCTGTCTGTCTCCGTGGATGCATCCTAACCTAAGGAAAATCCCCAGGC
TGTGATCTACCCTAGAGAAGGCTCGTCCCTGCCTACTGGCTCACAAATGAGGACCAGTGAGCCATGTCTTGT
CCTGTTTGAGACTGGGCTGCAGGCCCCAGGAAGACTTCTCTACCCACCATCCCCCTAACCTCGGCAGGGCTT

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FIGURE 4460B

CTGTCCTGTGGAGTTCCCTGGACACCTTGGTCTGGCTCTTGTGCCAAGGGCTGAAGGAGGTACCCTCTTGGCAGA
TGGGGGCATCACTTGCTTCCTTTGGGAAGCTCTAAGGTTGCTGCAGTCACCTTCCTCATCTTGCAGGTGCTGAAC
CAACATCATCAGTTTCTATTCTAATCAGGCCCCCTTCCAATCTCCATTTCTCTGCCAAGCCCATTACCCCCACC
TCATGCATCCCAAGGCTCTACTGGGTCCCTGGACCTAACCTGCTTTTCATCCTGGTGGCCTTAACCTACAGTGGAG
GTGGAACTTCCCAGGAGGGGAAGGGACAGACCAGCCCCAGCCGCTGGGCCAACTTCCAATCATTCCAGCTAGAAG
AGCTTCCCCCTGACACCTGTGACTGAGCCTGTGTCTGTCTGCCTGCCCAGCCATGCTCCATCGGCTGTGAGGG
CAGTGCCCGGAGAGGCCAGAGGGTTGGAGCTGCAGGGACCCGTTTGGACCCACAGCCTCTGTTCTAGAGATGCTT
GTATAGGCTGTTAATTGTGATGAATAAACGTTCAACCCTCGGCCTGCAGCCAGAGTAGCCAGGCCGCGCACCCC

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FIGURE 4461

CATGGGGTCCTGTCCCAGCAATTCGTGGAGCTCATCAACAAGTGCAATTCATGCAGTCCGAATACCGGGAGAAG
AACGTGGAGCGGATTTCGGAGGCAGCTGAAGATCACCAATGCTGGGATGGTGTCTGATGAGGAGTTGGAGCAGATG
CTGGACAGTGGGCAAAGCGAGGTGTTTGTGTCCAATATCCTGAAGGACACGCAGGTGACTCGACAGGCCTTAAAT
GAGATCTCGGCCCGGCACAGTGAGATCCAGCAGCTTGAACGCAGTATTCGTGAGCTGCACGACATATCACTTTT
CTGGCTACCGAAGTGGAGATGCAGGGGGAGATGATCAATCGGATTGAGAAGAACATCCTGAGCTCAGCGGACTAC
GTGGAACGTGGGCAGGAGCACGTCAAGACGGCCCTGGAGAACCAGAAGAAGGCGAGGAAGAAGAAAGTCTTGATT
GCCATCTGTGTGCCATCACCGTCGTCCTCCTAGCAGTCATCATTTGGCGTCACAGTGGTTGGATAATGTCGCACA
TTGTTGGCACTAGGAGCACCAGGAACCCAGGGCCTGGCCTTCTCTCCAGCAGCCTGGGGGGCAGGGCAGAGCCT
CCAGTCGGACCCCTTCCTCAGCTGGCCCCCTATGCAGAAGGGCAGACAGTTCTTCTGGGGTTGGCAGCTGCTCAT
TCATGATGGCCTCCTCCTCAGGCCTCAATGCCTGGGGGAGGCCTGCACTGTCCTGATTGGCCGGGACACACGGT
TTTGTAATAAATTAAAAACAAAAAAGAGCATAGAAA

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FIGURE 4462

GGTTTTCTCCGCGGGCGCCTCGGGCGGAACCTGGAGATAATGGGCAGCACCTGGGGGAGCCCTGGCTGGGTGCGG
CTCGCTCTTTGCCTGACGGGCTTAGTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGGCCCGGACCGG
GATTACCGCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTGCGCGCTCTTCTCCTCCAGGTGGGGCAGGGGT
TTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAACAGCATATTCGGTTGCATCTTC
TACACACTACAGCTATTGTTAGGTTGCCTGCGGACACGCTGGGCCTCTGTCTGATGCTGCTGAGCTCCCTGGTG
TCTCTCGCTGGTTCGTCTACCTGGCCTGGATCCTGTCTTCGTGCTCTATGATTTCTGCATTGTTTGTATCACC
ACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCAGGGCAAGGCTAAGAGG
CACTGAGCCCTCAACCCAAGCCAGGCTGACCTCATCTGCTTTGCTTTGGCATGTGAGCCTTGCCTAAGGGGGCAT
ATCTGGGTCCCTAGAAGGCCCTAGATGTGGGGCTTCTAGATTACCCCTCCTCCTGCCATACCCGCACATGACAA
TGGACCAAATGTGCCACACGCTCGCTCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCATGGGCTGGTCTCCA
AAGCTCTTTCCATTGCCCAGGGAGGGAAGGTTCTGAGCAATAAAGTTTCTTAGATCAATC

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FIGURE 4463

GGGCGCAGGCGGCTGGGCGCCTGGCGAGTGGACTGTTTCGAGCCCTTCCGCTGGGACCCGGGCCCCTGGCTCCGGCC
CCGCGATGGGAGCTGCTCTCCGCGGGCTGAGCCTGTCTAGCATCCTCGACGCACCCTGGTCCCTGAAGTCGGAGAA
GAGCCCCATCCACCCACACCCCCTTGCCCCATTTTGGGTGCGCTGGGTCTCAGTCCTAGCGGATCCTCAGTCC
TAGCGGCCACCGGTCTGAAAGGAGCAAGACGATGATCCTGGCGTCCGGTCTGAGGAGCGGTCCCGGGGGCGGGC
TTCCGCTCCGGCCCCCTCCTGGGACCCGCACTCGCGCTCCGGGCCCCGCTCGACGTGGCCACCGACACACACCACG
TGGAGATGGCTCGGGAGCGCTCCAAGACCGTCACCTCCTTTTACAACCAGTCGGCCATCGACGCGGCAGCGGAGA
AGCCCTCAGTCCGCCTAACGCCCACCATGATGCTCTACGCTGGCCGCTCTCAGGACGGCAGCCACCTTCTGAAAA
GTGCTCGGTACCTGCAGCAAGAACTTCCAGTGAGGATTGCTCACC GCATCAAGGGCTTCCGCTGCCTTCTTTCA
TCATTGGCTGCAACCCACCATACTGCACGTGCATGAGCTATATATCCGTGCCTTCCAGAAGCTGACAGACTTCC
CTCCGATCAAGGACCAGGCGGACGAGGCCAGTACTGCCAGCTGGTGCGACAGCTGCTGGATGACCACAAGGATG
TGGTGACCCTCTTGGCAGAGGGCCTACGTGAGAGCCGGAAGCACATAGAGGATGAAAAGCTCGTCCGCTACTTCT
TGGACAAGACGCTGACTTCGAGGCTTGAATCCGCATGTTGGCCACGCATCACCTGGCGCTGCATGAGGACAAGC
CTGACTTTGTTCGGCATCATCTGTACTCGTCTCTCACC AAGAAGATTATTGAGAAGTGGGTGGACTTTGCCAGAC
GCCTGTGTGAGCACAAATATGGCAATGCGCCCCGTGTCCGCATCAATGGCCATGTGGCTGCCCGGTTCCCTTCA
TCCCTATGCCACTGGACTACATCCTGCCGGAGCTGCTCAAGAATGCCATGAGAGCCACAATGGAGAGTCACCTAG
ACACTCCCTACAATGTCCAGATGTGGTCATCACCATCGCCAACAATGATGTCGATCTGATCATCAGGATCTCAG
ACCGTGGTGGAGGAATCGCTCACAAAGATCTGGACCGGGTCATGGACTACCACTTCACTACTGCTGAGGCCAGCA
CACAGGACCCCGGATCAGCCCCCTCTTTGGCCATCTGGACATGCATAGTGGCGCCAGTCAGGACCCATGCACG
GCTTTGGCTTCGGGTTCGCCACGTACGCGGCTACGCGGAGTACCTCGGTGGGTCTCTGCAGCTGCAGTCCCTGC
AGGGCATTGGCACGGACGTCTACCTGCGGCTCCGCCACATCGATGGCCGGGAGGAAAGCTTCCGGATCTGACCCC
ACAGCCTTTGGCCTGCTCACCCGACCAGCCTGGGCCGCATTCCTTGCAGGACCTCCCGGTCAGGCAGGGCGGCC
CCCTGCTCCACACACTGCTGCATCTTGGGTCTCAGGGACCCAGACAGATGGACTTACATGGAGCTGGGCACTGCC
CTGCCTCAACAGGGTCCATTGCCTCCTCGCCTCCAGAACTTGGAGCAGGGAAGTGGGCACCCTGAGGCCTCCAGC
ACCAGTTCCGTCAATTCTCGTTCTGCGGAAACCCCACTCTGACCTGTTATTAAAGTTACATTTTGAATGCCCTC
TCGGGCCCCGTGTGTGGGGAGGGCAGGTG

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FIGURE 4464

MILASVLRSGPGGGLPLRPLLGPALALRARSTSATDTHHVEMARERSKTVTSFYNQSAIDAAAEKPSVRLTPTMM
LYAGRSQDGSHELLKSARYLQQELPVRIAHRIKGFRCLPFIIGCNPTILHVHELYIRAFQKLTDFPPIKDQADEAQ
YCQLVRQLDDHKDVVTLAEGLRESRKHIEDEKLVRYFLDKLTSLRGIRMLATHHLALHEDKPDFVGIICTRL
SPKKIIEKWVDFARRLCEHKYGNAPVRINGHVAARFPFIPMPLDYILPELLKNAMRATMESHLDTPYNVPDVVI
TIANNDVDLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRI SPLFGHLDMHSGAQSGPMHGFGLPTSRA
YAEYLGGSLQLQSLQGIGTDVYLRLRHIDGREESFRI

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FIGURE 4465

ATGCTCAGTCCTCCAGGCGTCGGTGCTCAGCGGTGTTGGAACCTTCGTTGCTTGCTTGCTGTGCGCGCGTGCGCG
GACATGGCCTCAAACGATTATACCCAACAAGCAACCCAAAGCTATGGGGCCTACCCACCCAGCCCGGGCAGGGC
TATTTCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGTTATAGCCAGTCCACGGACACTTCAGGC
TATGGCCAGAGCAGCTATTCTTCTTATGGCCAGAGCCAGAACACAGGCTATGGAACCTCAGTCAACTCCCCAGGGA
TATGGCTCGACTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGCAGTCTCTACCTTGGC
TATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTCTCAGAGCAGCAGCTATGGGCAG
CCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGGACAGCAGCAAAGCTATGGACAGCAGCAAAGCTAT
AATCCCCCTCAGGGCTATGGACAGCAGAACCAGTACAACAGCAGCAGTGGTGGTGGAGGTGGAGGTGGAGGTGGA
GGTAACCTATGGCCAAGATCAATCCTCCATGAGTAGTGGTGGTGGCAGTGGTGGCGGTTATGGCAATCAAGACCAG
AGTGGTGGAGGTGGCAGCGGTGGCTATGGACAGCAGGACCGTGGAGGCCGCGGCAGGGGTGGCAGTGGTGGCGGC
GGCGGCGGCGGCGGTGGTGGTTACAACCGCAGCAGTGGTGGCTATGAACCCAGAGGTCGTGGAGGTGGCCGTGGA
GGCAGAGGTGGCATGGGCGGAAGTGACCGTGGTGGCTTCAATAAATTGGTGGCCCTCGGGACCAAGGATCACGT
CATGACTCCGAACAGGATAATTCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAG
TCTGTGGCTGATTACTTCAAGCAGATTGGTATTATTAAAGACAAACAAGAAAACGGGACAGCCCATGATTAATTTG
TACACAGACAGGGAACTGGCAAGCTGAAGGGAGAGGCAACGGTCTCTTTTGATGACCCACCTTCAGCTAAAGCA
GCTATTGACTGTTTGTATGGTAAAGAATTCTCCGGAATCCTATCAAGGTCTCATTGTCTACTCGCCGGGCAGAC
TTTAATCGGGGTGGTGGCAATGGTCGTGGAGGCCGAGGCCGAGGAGGACCCATGGGCCGTGGAGGCTATGGAGGT
GGTGGCAGTGGTGGTGGTGGCCGAGGAGGATTTCCCAGTGGAGGTGGTGGCGGTGGAGGACAGCAGCGAGCTGGT
GACTGGAAGTGTCTAATCCCACCTGTGAGAATATGAACTTCTCTTGGAGGAATGAATGCAACCAGTGTAAAGGCC
CCTAAACCAGATGGCCCAGGAGGGGGACCAGGTGGCTCTCACATGGGGGGTAACTACGGGGATGATCGTCGTGGT
GGCAGAGGAGGCTATGATCGAGGCGGCTACCGGGGCCGCGCGGGGACCGTGGAGGCTTCCGAGGGGGCCGGGGT
GGTGGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCAGGGGTGAGCACAGACAGGATCGCAGGGAGAGG
CCGTATTAAATTAGCCTGGCTCCCCAGGTCTGGAACAGCTTTTTGTCTGTACCCAGTGTACCCCTCGTTATTTT
GTAACCTTCCAATTCCTGATCACCCAAGGGTTTTTTTTGTGTCGGACTATGTAATTGTAACATAACCTCTGGTTC
CCATTAAAAGTGACCATTTTAGTT

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FIGURE 4466

MASNDYTQQATQSYGAYPTQPGQGYSQSSQPYGQQSYSGYSQSTDTSYGYQSSYSSYGQSQNTGYGTQSTPQGY
GSTGGYGSSQSSQSSYGGQSSYPGYGQQPAPSSTSGSYGSSSQSSSYGQPQSGSYSQQPSYGGQQQSYGQQQSYN
PPQGYGQQNQYNSSSGGGGGGGGGGNYQDQSSMSSGGGSGGGYGNQDQSGGGGSGGYQQDRGGRGRGSGGGG
GGGGGGYNRSSGGYEPRGRGGGRGGRGGMGGSDRGGFNKFGGPRDQGSRDSEQDNSDNNTIFVQGLGENVTIES
VADYFKQIGIIKTNKKTGQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFSGNPIKVSFATRRAF
NRGGGNRGGGRGGRGPMGRGGYGGGSGGGGRGGFPGGGGGGGQQRAGDWKCPNPTCENMNF SWRNECNQCKAP
KPDGPGGGPGGSHMGGNYGDDRRGGRGYDRGGYRGRGGDRGGFRGGRGGGDRGGFGPGKMDSRGEHRQDRRERP
Y

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FIGURE 4467

ATGCCAAGGTCAGGGGCTCCCAAAGAGCGCCCTGCGGAGCCTCTCACCCCTCCCCATCCTATGGCCACCAGCCA
CAGACAGGGTCTGGGGAGTCTTCAGGAGCCTCGGGGGACAAGGACCACCTGTACAGCACGGTATGCAAGCCTCGG
TCCCAAAGCCTGCAGCCCCGGCGGCCCCCTCCATTCTCTCTTCCAGCGGTGTCTTGGGTACCGGGCTCTGTGAG
CTAGATCGGTTGCTTCAGGAACTTAATGCCACTCAGTTCAACATCACAGATGAAATCATGTCTCAGTTCCCATCT
AGCAAGGTGGCTTCAGGAGAGCAGAAGGAGGACCAGTCTGAAGATAAGAAAAGACCCAGCCTCCCTTCCAGCCCG
TCTCTGGCCTCCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCCTCACTCTCTGAC
TTCCGCGTTCAAAACCATCTTCCAGCCTCTGGGCCAACTCAGCCACCGETGGTGAGCTCCACAAATGAGGGCTCC
CCATCCCCACCAGAGCCGACTGGCAAGGGCAGCCTAGACACCATGCTGGGGCTGCTGCAGTCCGACCTCAGCCGC
CGGGGTGTTCCCAACCAGGCCAAAGGCCTCTGTGGCTCCTGCAATAAACCTATTGCTGGGCAAGTGGTGACGGCT
CTGGGCCGCGCTGGCACCCCGAGCACTTCGTTTTCGGGAGGCTGTTCCACCGCCCTGGGAGGCAGCAGTTCTTC
GAGAAGGATGGAGCCCCCTTCTGCCCCGAGTGCTACTTTGAGCGCTTCTCGCCAAGATGTGGCTTCTGCAACCAG
CCCATCCGACACAAGATGGTGACCGCCTTGGGCACCTACTGGCACCCAGAGCATTCTGCTGCGTCAGTTGCGGG
GAGCCCTTCGGAGATGAGGGTTTCCACGAGCGCGAGGGCCGCCCCCTACTGCCGCGGGGACTTCTGACAGCTGTT
GCCCCGCGCTGCCAGGGCTGCCAGGGCCCCATCCTGGATAACTACATCTCGGCGCTCAGCGCGCTCTGGCACCCG
GACTGTTTCGTCTGCAGGGAATGCTTCGCGCCCTTCTCGGGAGGCAGCTTTTTCGAGCACGAGGGCCGCCCCGTTG
TGCGAGAACCACTTCCACGCACGACGCGGCTCGCTGTGCGCCACGTGTGGCCTCCCTGTGACCGGCCGCTGCGTG
TCGGCCCTGGGTGCGCGCTTCCACCCGGACCACTTACATGCACCTTCTGCCTGCGCCCGCTCACCAAGGGGTCC
TTCCAGGAGCGCGCCGGCAAGCCCTACTGCCAGCCCTGCTTCTGAAGCTCTTCGGCTGA

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FIGURE 4468

CAAAAGCTCGGCATGGCTGACGACGCGGGTTTGGAGACCCCGCTGTGTTCCGAGCAGTTCGGCTCCGGGGAGGCA
CGGGGCTGCCGCGCCGCCGCGGACGGGAGCCTGCAGTGGGAGGTCGGGGGCTGGCGCTGGTGGGGGCTCTCCAGG
GCCTTCACGGTCAAACCTGAAGGACGAGATGCGGGCGAAGTGGGGGCTTCCGGGGCCCCCTCACCGCCCCCTCTCC
GGGCTCCAGGCCGTGTTCTGCTCAGGGCTTCCCTGATAGCGTCAGCCCGGACTACTTGCCCTACCAGCTGTGG
GATTCCGTGCAGGCGTTTGCTTCCAGCCTCTCCGGCTCCCTAGCCACCCAGGCAGTCTTGCTGGGCATAGGGGTG
GGGAACGCAAAAGCCACTGTTTCAGCTGCCACGGCCACCTGGCTCGTGAAAGATTCAACTGGCATGCTGGGCCGC
ATCGTCTTTGGCTGGTGGAAAGGGAGCAAAGTGGACTGCAATGCCAAGCAGTGGAGGCTTTTTGCGGACATCCTC
AATGACGTAGCCATGTTCTTGAGATTATGGCTCCTGTATACCCAACTGTGTTTACCATGACCGTCTCCACCAGC
AACCTAGCCAAGTGCATCGTGAGTGTGCTGGTGGGGCCACTCGGGCTGCCCTGACCGTGCACCAGGCTCGGAGG
AACAACATGGCTGACGTGTGAGCAAGGACAGCAGCCAGGAGACGCTGGTGAACCTGGCGGGGCTCTTGCTCAGC
CTCCTGATGCTCCCTCTGGTGTGAGGTTGCCCTGGCTTCAGCCTTGATGTTTCTTCTTCTCACTGCCCTCCAC
ATCTACGCCAACTACCGCGCGGTCCGAGCCCTGGTTCATGGAGACCTTGAACGAAGGCCGGCTCCGGCTGGTCTG
AAGCACTACCTTCAGAGGGGAGAGTACTCGACCCAACTGCAGCCAACTCGCATGGAGCCGCTGTGGACAGGTTTC
TGCCAGCTCCGTCTCTATCCCTGGGGGTCCCCCTACACCGCTTGGTCTCCAGTGTCTTTGAGCTGCAGCAGCTG
GTTGAGGGGACCAAGAATCCTACCTCCTCTGCTGGGACCAGTCACAAAACCAGGTACAGGTAGTTCTGAACCAG
AAGGCAGGCCCCAAGACCATCCTAAGGGCCGCCACATGGGCTGATGCTTGGGGCCCTGCAGGGAGATGGACCC
CTTCCAGCAGAGCTGGAGGAGCTGAGGAACCGGTGCGGGCAGGTCCTAAGAAAGAGAGCTGGGTCTGCTCAAG
GAGACACACGAAGTGTGGACATGCTGTTCCCAAAGTTCTTGAAAGGACTGCAGGATGCCGGCTGGAAGACCGAG
AAGCACCAGCTAGAGGTGGGTGAGTGGAGGGCCACATGGCTTCTGTCTCCCGAAAAGAAGGTCTTGTGAGCAGCC
CAGACGGAGGGCCCAAGCCCAGGGCAGGAACCTGGAGCAAGGACACTTTGGCCACAGCAGGACAGGGGAAAGGCAG
CTTTATTTTTCTTAGGGCAACTGCAGCGGGTGGGCCAGGCCCTCATGGGAAGTGAAGTGCCTCAATCAGATGCAGTG
GGCCCCAGGCAGAGGAAGGCCGGGAGAAGGGGAGCCAGGACCTTCTACCCCCACTGCCCTTCCCCCTTTCTGGG
GAGCACCAGGCTCCTCACCCCCACTTCTGTGAGGCTGTGGCTTATGGTGTCCAACGCAGTTGGTCTTAGGCA
TAGAAGCCCCAGAGGAACACGGCCACTGCCATCATGAGCAGGGCATTGAGGTTGACCACACGGGGCCAGCTCGGG
TCCTCGCTGATGTCTCCAGCCGCTGGCTGCTGCCGCTGCCTCCTCTGGGTAAGGGGCGGAGGACTGCCACC
CCACCTCTGCTCATTCCACAAAACCAGAGCAGGCACTGGCGGAAGAGGCTTGGTGCCGGGGCTGGGGCTCTGAG
GGAAATTGAGGCCCTGCAGTTAGTTTGGCGGAAGTCACTCCTCCAGCCCCACCTCCCAGCATGGTGGCCTACCA
TTCATCTCCATGGCACTCTCTGGGCACCCATTCTGTACAGGGAGTGAGGAGCCTTGCTGCTCATCAGCATCCAGG
TCCTCCCGTTCTCTTGTATGCCGGAGACTGAAGACCAGGCGGTGGAGCTGGGGAGGGTGGGAGCACGAACGA
GGTGGGAGTTCTGTCCCCCATGCTGGCCCTAAAGTCTCTTGACACCAGCTCGTCACTGCTGCCCTACCCAC
CTCTGTCCAGTCTACACACCCAGCCAGGCTTAACCTCATGCCAACTCCACCTACATGGCTGCCCTGTGCCCTCG
GGATAAACCCCAAGCCCCGTAGCTTGTGTTAAAGCCGTTGGCCTTGCTCCCCAGCTTTGTGAGCTCAGGTCTG
TCTACACCCAGATGGTAGCGCTTGTGACACTGGCCTGGCAGTCTGCTCAGAGTGTCTGTGCTGTGTGCTCCC
ACCCTTTCTCTCTGTGCTGCAGAAACCCGGCCATCCTTCCACACCCAGATCTCTTGTCTGTCTCCTCACCAC
CTGCCACCATCAGCCCTGCCTGGAGCCACCTGCCCTTTGGCAACAAAACCAACCTTTTTGTGGGCGTTCAAGAT
GGTATTGTGCCACCCAGTCAGATCCTGTGTTTTGAGTCCCAAAGGCCATGCCAAGGATTGGCTTTGGGAGGCTT
AATCACCACCCATCAACATCAAGCCTCCCCAGGCCGTTCAAATAAATGTATTAAAT

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FIGURE 4469

MADDAGLETPLCSEQFGSGEARGCRAAADGSLQWEVGGWRWWGLSRAFTVKPEGRDAGEVGASGAPSPPLSGLQA
VFLPQGFPDSVSPDYLPYQLWDSVQAFASSLSGSLATQAVLLGIGVGNAKATVSAATATWLVKDSTGMLGRIVFA
WWKGSKLDCNAKQWRLFADILNDVAMFLEIMAPVYPICFTMTVSTSNLAKCIVSVAGGATRAALTVHQARRNNMA
DVS AKDSSQETLVNLAGLLVSLMLPLVSGCPGFSLG CFFFLTALHIYANYRAVRALVMETLNEGRRLRLVLKHYL
QRGEVLDPTAANRMEPLWTGFWPAPSLSLGVPLHRLVSSVFELQQQLVEGHQESYLLCWDQSQNQVQVVLNQKAGP
KTILRAATHGLMLGALQGDGPLPAELEELRNRVRAGPKKESWVVVKETHEVLDMLFPKFLKGLQDAGWKTEKHQL
EVGEWRATWLLSPEKKVL

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FIGURE 4470

GCTTCCCTGCTTGATCTGTGTACCTGCTCTTTCTCCTTCATTCCGCAGCCTCCTTTGCCCTGTGACCTGCAGGT
ACTGGACGGTCCCTAGAGAGGATAACGGGACGCTCCTGAAGCCGCGAGATGATTTCAAGCAGATGCAGCCTGACC
ATTAGGGCCAAGGCCAAATTGCAAAAAAAAAAAGAAGTTTGCTTTATTCTACTCCATCCACATCTAAACTTTGG
AGGTCAAGGCTGTGGACAGATCAGAAGACATAGTTCCCTCCTTCTGGGGCTCCACATCCTTCATTCACTGATCTC
TGGGAAGGAGGATGGGTGGCAGGATGGGTCTTCCATGATACTGAAGGGAGAGCCACATGTTGATGCCAGGACCA
GCTGCCTCCTTGCTCTGAAAGGCCTGATCGAGGCCAGGATTGGCTATGAGAGCTGGGAAATGGGACCATCTTTGA
AGCCATGGGAGAGGGTGAGAGCCACCATCACTCATGTTCTTGAATGGGAAGTGCCTGGAGACCCTGAAGAAGAAG
GAGCCTGAAGGAGGAAGGAGGAGGCTGAGCCATCCCGGGAACATGGGCTGGATGAGGCCAAGCCAGGAGACGACA
CCACCAGATAGAAGTCACCATTTCAGGATTTGGACTTTTCTGTGGAGATCCTGGCCCCGAGATCGAACCTTCTCC
CTGTGGGTGTTCCCGCAGGAGATGGTGCTGGAGATCCACCAGCTGTTTCATGGACCATGAATACCCATGTACCAC
ATCACTTCTCACTGCACCTGGGTGGCAGCACACTGGACCACGTCCTCAGAGCTGCGCAGCATGGCAGGGCTGCAGG
CGGGCTTGCTGCTCCACGTGGTGGAGAGCCCTGCACAATGCACAAGGCCACGGTGATGAGTGCCACATTTGAG
ACTGCTCAGGAGCCTGGACCCAGCTGATGCAGCTCCTTGTCCTTCTGAGCGTCTTCACTGACAGTGGCCTGAGA
GACGGCAGGAGCAGAAAGACTTGGAGATGGACCCACCGACTGCACACCACCCAAGTACATCCTGCTAGGGACCC
TGGAACAGCCACTGTGTCCCTGCAACCCAGAACGGTGACTAAAAGCCCCTGAAAGTGCTCACCGTGAGCGGCT
GGTACCTGTCCCTGGGAAGTGAAGATGCACAGGACCTTGTGTACCTGTTTGTGATCACAGCCGAGGACCAGCG
AGGTAGCATTACCACATCCACACAGGGCTTTTACCATAACCGCCCCAGTACTGGAACGAGGAGCTGCAGATGATG
AGGGACCTACCCAACAAGAACCAACCTGAGCAGCTGCTTCAAGAAAAAGCCATGTTCAAGGTGCCTGAATCCCT
GGTAAGTGAGTGACAGCCTCACAGCCTCAGGCCACCTGGCTCCTGCTGGAAGGTTTTCTTGTGCTCGGGAGAGA
AGTGAGGGAAGCCGCGAGTCCCAGCCCTGTGAGGTGCCCTGAAGGCCCGTCAGGTTTGCCCTGCAAGGCCCTTCTA
GCATTCTGCTTCTTGGGAGACCATCCCCACCTTTCTCCGGCCTCTGAGACTTTGAGTCCCTGGGAGGAGAAGGC
CCTCCTTGCTATCTGGGCTGAGTGCCAGGGCCATCCAGCTTCCCACCCTCCACTGACTGCCATGGGGCCCTCCC
CTGAGCACATGGTGCCCAACTGTAGCCCTTCTAGGGCAGGGGCTCATTTGGCAGCACTTGCAGCTTGCTGGCACTT
AAAAGTCATTAGTGCGGTTACTGAGAGAAATGAGGAAAAAATAATTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4471

MFLNGNCLETLLKKKEPEGGRRRLSHPGNMGWMRPSQETTPDRSHHSGFGLFCGDPGPEIEPFSLWVFPQEMVLE
IHQLFMDHEYPCHHITSHCTWVAAHWTTSQSCAAWQGCRRACCSTWWKSPAQCTRPTVMSATFETAQEPGPS

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FIGURE 4472

AAGAAGAGGCGAGAAAGACCCCCGACAGACCAAAGCCCGTGTGCCGCTGCATCCTGCATCCAGCACCTACCTCC
CGCCACTGTCGCCACTGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAA
GGATGAACCACAGAGAAGATCCGCAAGGTTGTCTGCTAAACCTCCTCCTCCAAAGCCAGACAGCCCAGCCTAGA
AAGGCCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATT
CCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTGTGTTTTATGTCCT
CTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTC
ATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGTAGTG
GTTCCATTTCTAGATTGTAGATCTTCAGATAAATCTGCCATTTTCATTTCACTTCCTGAAAGTCAGGGTCGGCT
TCTAAAAATTTGTTAAACAATATGCTAAATGTGAAATGTCACCCCTCACTCTAACTTTCCCCGTTTCAGAGCATC
AGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTT
GTTGTATACTGTTAACGATTATCTGCCCATGTCCTGCCT

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FIGURE 4473

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPPPKPDSPSLERPLQRRERRYPKGKREKLMLRRRDSLTLTHMA
TLAQKPCGIEKQICFYVLFSLIFQHRLNSLKPRHLLGDPD

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FIGURE 4474

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCGGCCGCGCCATGGCTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGGCGTCCCGCCCGGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTGGTGGGGGATTGTTTCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAATACTAACCTAGCAAGAATGTGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGTCTTGTGAGGTGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTGCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAAGCAGACCAGGCCCCAGGAGTGAACCCGAGACATTGTTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTTCAGAGAGATGGGAATGATTGTCACATGACATATAAAATAGGACTTGTTGAAGCTCTATGTGGATTCA
GTTACATTTAAGCACCTTGATGGACGTCAGATTGTGGTGAAATACCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTCTGTAGTTTCGAGGTGAAGGGATGCCGCGAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCTGAAAACAACCTGGATCAACCCAGACAAGCTTTCTGAAGTCTAGAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCATCAGTAACTCTGCAACAAATTGCACAGGTGGATTTTCTTCCACATTTGCCTGATTGTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCAGATGAAGTGAAGGACATCTGTTGGTCTATGTATAACTTTTAAAT
TGGTATAGTATCTACAGAGTGTATAATTTAACTAACCACAAAGCTTTACATCTTCATTTTGAAGTGTCCATAGC
AGAATAAAGCACTTGAAAGGAAACAAGACTCCCTTTACACATGGATTATTATAAGTTTCAATCCTGGTATCTGT
GCTTGATTTTTATCAGTTTTGTGTAGATTTTTATGTTTCATATTTTAAATTTAAATCCCACATTGTAAAGTTTGT
ACAATTTGTCTGAAGCTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAGAATAAAGAATTTTCATAGCC
TGTATCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATGG
AAAAAATTACATTAGCTGTGGTTGIAAAGTTTTTTTGTGTTTTGGTTTTGTTTTTTTTTCTTTTTTCTTTTTTTT
TTTTTTTACCATCTGTGAAAGGTTTCTGAAACTCGATAATAAAAAGCGGTTGGTGTAATT

4854/6881
FIGURE 4475

MANVADTKLYDILGVPPGASENELKKAYRKLAKKEYHPDKNPAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRNRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSSACSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVEPGDIVLLLQEKHEVEFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPDKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRGSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

4855/6881
FIGURE 4476

GGCACGAGCGCGCGGTTACCGGAATTGTTTCGCTTTAGTGCCGGCGCCATGGGGTCCGAGCTGATCGGGCGCCTA
GCCCCGCGCCTGGGCCTCGCCGAGCCCGACATGCTGAGGAAAGCAGAGGAGTACTTGCGCCTGTCGGGGTGAAG
TGTGTCGGCCTCTCCGCACGCACCACGGAGACCAGCAGTGCAGTCATGTGCCTGGACCTTGACAGCTTCTTGGATG
AAGTGGCCCTTGACAGGGCTTATTTAATTAACTTTCTGGTTTGAACAAGGAGACATATCAGAGCTGTCTTAAA
TCTTTTGAGTGTTTACTGGGCCTGAATTCAAATATTGGAATAAGAGACCTAGCTGTACAGTTTAGCTGTATAGAA
GCAGTGAACATGGCTTCAAAGATACTAAAAAGCTATGAGTCCAGTCTTCCCCAGACACAGCAAGTGGATCTTGAC
TTATCCAGGCCACTTTTCACTTCTGCTGCACTGCTTTCAGCATGCAAGATTCTAAAGCTGAAAGTGGATAAAAAAC
AAAATGGTAGCCACATCCGGTGTAATAAAGCTATATTTGATCGACTGTGTAAACAAC TAGAGAAGATTGGACAG
CAGGTCGACAGAGAACCTGGAGATGTAGCTACTCCACCACGGAAGAGAAAGAAGATAGTGGTTGAAGCCCCAGCA
AAGGAAATGGAGAAGGTAGAGGAGATGCCACATAAACCACAGAAAGATGAAGATCTGACACAGGATTATGAAGAA
TGGAAGAAGAAAATTTTGAAAATGCTGCCAGTGCTCAAAGGCTACAGCAGAGTGATTTTCAGCTTCCAACTGG
TATACATTCCAACTGATAGTACATTGCCATCTCCAGGAAGACTTGACGGCTTTGGGATTTTGTAACTTTTA
TAATAAGGATCCTAAGACTGTTGCCTTTAAATAGCAAAGCAGCCTACCTGGAGGCTAAGTCTGGGCAGTGGGCTG
GCCCCGTGGTGTGAGCATTAGACCAGCCACAGTGCCTGATTGGTATAGCCTTATGTGCTTTCCTACAAAATGGAAT
TGGAGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGT
CAGGAGCTCGAGACCAGCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGTGTG
ATGGTGCATGCCTGTAATCCCAGCTCCTCAGTAGGCTGAGACAGGAGCATCACTTGAACGTGGGAGGCAGAGGTT
GCAGTGAGCCGAGATTGCACCACCGCACTCCAGCCTGGGTGACAGAGCGAGACTTATCTCATAAATAAATAGATA
GATACTCCAGCCTGGGTGACAGAGCGAGACTTATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATA
GATAGATAGATAAACGGAATTGGAGCCATTTTGCTTTAAGTGAATGGCAGTCCCTTGTCTTATTCAGAATATAAA
ATTGAGTCTGAATGGCATCTTACAGATTTTACTTCAATTTTGTGTACGGTATTTTTTATTGACTAAATCAATA
TATTGTACAGCCTAAGTTAATAAATGTTATTTATATATGCAAAAAAAAAAAAAAAAAAAAAA

4856/6881
FIGURE 4477

MGSELIGRLAPRLGLAEPDMLRKAEYYLRLSRVKCVGLSARTTETSSAVMCLDLAASWMCPLDRAYLIKLSGLN
KETYQSCLKSFECLLGLNSNIGIRDLAVQFSCIEAVNMAKILKSYESSLPQTQQVDLDLSRPLFTSAALLSACK
ILKLKVDKNKMVATSGVKKAIFDRLCKQLEKIGQQVDREPGDVATPPRKRKKIVVEAPAKEMEKVEEMPHKPQKD
EDLTQDYEEWKRRILENAASAQKATAE

4857/6881
FIGURE 4478

TATTTTGTGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG
TCAAATTGTAACCTCTGATTCCGAGCAGGAAAATATCTCCATGGTGGGAAGGGTTAAAATTGTATTCCGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
CCATTGTCTGCTATAAATGCCTGCTTGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC
ACTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGTGATATTAATAATCTCAGGCATAAAATTTGTTTCAGCATGATGCT
GTAGAGGGAATCTTAATTGTTTACCCTGGTAAGACTACGCTGGAACCTGTGTGCTGCAGTGTGAGACGACCGGA
GTCACAGTGCGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGTGTTATAGAA
ATCTACCCTGGGAGTCACTGCACCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT
GTTGTCTTGGTGAAACCTACAATCTTCTGACCTGCAAGAAAATGCTGAAGATGGAACGAAAGAAAATAAGCG
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCACT
GGTAAATGGAGCTTTGTGCAAGAACTGACCTTCTGAGCAAGTCGAGGGAAATTTGTGAATTTGTAATGAACATA
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAGGTTGAGTGAACCTGGGGATCACGCAAGCTGATGAC
AACTTAATGTACAGGAGATGTTTGTGGGATTGTGGGGAAACAGTTCAAGTGGAAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGACATGCTGCCCTAAGAATCA
CTGCTGCCATTGTAGTTTGTCTGTATTGTCTGTATTTATATTTGATTATTTGGGCTTGAGTGAAGGTAGATTTA
TTTCCATTGTCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAACT
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCAATAAAATG
CAATAGGTGTCTATGTACAGCATTCTTCTTAGAGTTGCCTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTAATTTGCATAATACTTGCTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAAATGGGACGCATTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTACAGAGCCAATGTTGTACATAGAGCATTTCCTATTGCTGAATGGGAATG
ATTAACAAACAAGGTATTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGGCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAGTATTTTCTCTTACCCTTACAGTATTCTGATTATATTACTGACACAGTCAAA
ATGATTAAGTGTACAACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAAACAGCTTTAAAAATATTTATA
TTTTAAAACGTATGTGACATTAATATGCCTAATGATTAAAATTATAGTGATGAATAACAAAA

4858/6881
FIGURE 4479

GCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGATCACC
ACCATTGAGGCGGTGAAGCGCAAGATCCAGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGC
CTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCA
GAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAAGATG
GAACCTCAAGAAGCTCAACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCT
CGTAAGTTGGTGACCATTGAAGGAGACTTGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCGA
GAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGTGCTGAAGAAAAGTACTCTCAA
AAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTTT
GCTGAGCGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGAAGATAAACTGAAATGCACCAAAGAGGAG
CACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAATGCCCCAGTCCCACCC
TGCTGTGCTCCTCCCTGTGACCCAGACTCCGCTGAGGCCAGCCTGCCAGAAGCTGACCTTAACTGAGGGCTG
ATCTTTAACTGGAAGGCTGCTTTCTCCTTTACCGCCCCCTCCTTCCCTGTGTCTTTTTCGCCAAACTGTCTCTG
CCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATTTAAGGGAATGTGAGCACAA
TGCATAATGTCTTTAAAAAGCGTGTTGIGATGTACACATTTTGTAATTACCTTTTTTGTTGTTTTGTAGCAAACA
TTTGTA AACATTCCAAATAATTCCACAGCCCTGAAGCAGCAATCAAATCCCTTTCTCACTTTTGAAGGTGACT
TTTCACCTTAATGCATATTTCCCTCTCCATAGAGGAGAGGAAAAGGTATAGGCTTGCCTTGCTGAGAGCCAAACA
GAGCCCAGGGAGACTCCACTGTGGGAAACCTCATTGCTCTGTACAAAGTACTAGCTAAACCAGAAAGGTGATTCC
AGGAGGAGTTAGCCCAACAACAACAAAAACAAAAATGTGCTGTTCAAGTTTTTCAGCTTTAAGATATCTTTGGATA
ATATTATTTCTATTTTTTATTTTTTTCATTAGAAATGATCAAATTAAGATGGTTAAGACCTCTGAGACCAAACT
TTCTCTCATCTCTACCCCTCCCAACTGCTCACAGAACGGATCATGTCCCCCTTATGTTGAGGTGACCACTTAAT
TGCTTTCCCTGCCTCCTTGAAAGAAAGAAGATTGTGTTTTCTCCACTGATTTAGCCATGTGAAACTCATCTCATT
CCCTTTTCTGGGTTTCAAGCTGCTGTCTCTAGAAGTGCCATCTCATTGTGCTTCGTATCAGTCAGTGCTGGAGAA
ATCTTGAAATAGCTTATGTACAAAACTTTTTAAATTTTATATTATTTTAAACTTTGCTTCTTTGGGTTTGTGGCA
CCCTGGCCACCCCATGTGGCTGTGACAGCCTCTGCAGTCCGTGGGCTGGCAGTTTGCTGATCTGTAAAAATTTCT
TTCCCTACCCAGTCCCCATTTCTGGTAAGGTTTCTAGGAGGTCTGTTAGGTGTACATCCTGCAGCTTATTGGCT
TAAATGTACTCTCCTTTTATGTCGTCTCTTTGGGGCTGATTGGGAGAAAGAGAAATCAATAGTGCAACTGTTTT
GATACTGAATATTGACAAGTGCTTTTTTGAAATAAAGAACCAGTCCCTCC

4859/6881
FIGURE 4480

GGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACACGGCTGGGATCACCACCATTGAGGCGGTG
AAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCAAGAAGTT
GAGGGAGAAAGGCGGGCCCGGAAACAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAAGAT
GGAATCCAAGAACTCCAACCTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGC
TCGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCG
AGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCA
AAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTT
TGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGAGGA
GCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAAATGCCCCAGTCCCACC
CTGCTGCTGCTCCTCCCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATTTAAG
GGAATGTGAGCACAAATGCATAATGTCTTTAAAAAGCGTGTTGTGATG

4860/6881
FIGURE 4481

MMQRSELSASSKKLREKGGPGNRGMKVIENRALKDDEKMELQELQLKEAKHIAEEADRKYEEVARKLVTIEGDLE
RTEERAELTESRCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKIFTDKPKEAETCAEFAERSVAKLEKT
IDDLEDKCLKCTKEEHLCTQRM LDQTLLDLNEM

4861/6881
FIGURE 4482

GGAGGCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGAT
CACCACCATTGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCCGGAAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACCG
TAGGATCCAGCTGGTTGAAGAAGAGCTGGATCGTCCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGA
AGCAGAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGTTATTGAAAACCGGGCTTTAAAGATGAAGAAAA
GATGGAACCTCAAGAAGCTCAACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGT
GGCTCGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCTACTCT
CAAAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAG
TTTGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACA

4862/6881
FIGURE 4483

ATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACA
ACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAAC
ACGAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGG
CCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGATGCC
CACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTT
GAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACAGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTT
GTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTGAGAAATACCATACTGTGAATGGCCACAAGTGT
GAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGTCTTCATCCAGCCAAAGAGGGAGAATGCAAGGACCT
GAGCTTCTCTTCCTCAAGCCCCTCACAGCGACTGGGCTTTACAACCTCAATGTTGGAAGCTCTGGTACTGTTTAA

4863/6881
FIGURE 4484

TGTTTCCGCTGCATCCAGACTTCCTCAGGCGGTGGCTGGAGGCTGCGCATCTGGGGCTTTAAACATACAAAGGGA
TTGCCAGGACCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTGGGGCGCGGGGGCCGGACCATGAGCCGCTGAGCCGG
GCAAACCCCAGGCCACCGAGCCAGCGGACCCCTCGGAGCGCAGCCCTGCGCCGCGGAGCAGGCTCCAACCAGGCGG
CGAGGCGGCCACACGCACCGAGCCAGCGACCCCCGGGCGACGCGCGGGGCCAGGGAGCGCTACGATGGAGGCGCT
AATGGCCCGGGGCGCGCTCACGGGTCCCTGAGGGCGCTCTGTCTCCTGGGCTGCCTGCTGAGCCACGCCCGCGC
CGCGCCGTCGCCCATCATCAAGTTCCCCGGCGATGTCGCCCCAAAACGGACAAAGAGTTGGCAGTGCAATACCT
GAACACCTTCTATGGCTGCCCCAAGGAGAGCTGCAACCTGTTTGTGCTGAAGGACACACTAAAGAAGATGCAGAA
GTTCTTTGGACTGCCCCAGACAGGTGATCTTGACCAGAATACCATCGAGACCATGCGGAAGCCACGCTGCGGCAA
CCCAGATGTGGCCAACTACAACCTTCTTCCCTCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCAT
TGGCTACACACCTGATCTGGACCCAGAGACAGTGGATGATGCCTTTGCTCGTGCTTCCAAGTCTGGAGCGATGT
GACCCCACTGCGGTTTTCTCGAATCCATGATGGAGAGGCGACATCATGATCAACTTTGGCCGCTGGGAGCATGG
CGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTTGGGGGAGA
CTCCCATTTTGATGACGATGAGCTATGGACCTTGGGAGAAGGCCAAGTGGTCCGTGTGAAGTATGGGAACGCCGA
TGGGGAGTACTGCAAGTTCCCTTCTTGTTCATGGCAAGGAGTACAACAGCTGCACTGATACCGGCCGACGCGA
TGGCTTCCTCTGGTGCTCCACCACCTACAACCTTTGAGAAGGATGGCAAGTACGGCTTCTGTCCCCATGAAGCCCT
GTTACCATGGGCGGCAACGCTGAAGGACAGCCCTGCAAGTTCCATTCCGCTTCCAGGGCACATCCTATGACAG
CTGCACCACTGAGGGCCGCACGGATGGCTACCGCTGGTGCGGCACCACTGAGGACTACGACCGCGACAAGAAGTA
TGGCTTCTGCCCTGAGACCGCCATGTCCACTGTTGGTGGGAACCTCAGAAGGTGCCCCCTGTGTCTTCCCTTAC
TTTCTGGGCAACAAATATGAGAGCTGCACCAGCGCGCGCCGCGAGTGACGGAAAGATGTGGTGTGCGACCACAGC
CAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTGACCAAGGGTACAGCCTGTTCTCGTGGCAGCCACGA
GTTTGGCCACGCCATGGGGCTGGAGCACTCCCAAGACCCTGGGGCCCTGATGGCACCCATTTACACCTACACCAA
GAACTTCCGTCTGTCCAGGATGACATCAAGGGCATTAGGAGCTCTATGGGGCTCTCTGACATTGACCTTGG
CACCAGCCCCACCCCCACGCTGGGGCCCTGTCACTCCTGAGATCTGCAAACAGGACATTGTATTTGATGGCATCG
TCAGATCCGTGGTGAATCTTCTTCTTCAAGGACCGGTTCAATTTGGCGGACTGTGACGCCACGTGACAAGCCCAT
GGGGCCCTGTGTGGTGGCCACATTCTGGCCTGAGCTCCCGGAAAAGATTGATGCGGTATACGAGGCCCCACAGGA
GGAGAAGGCTGTGTTCTTTGAGGGAATGAATACTGGATCTACTCAGCCAGCACCCCTGGAGCGAGGGTACCCCAA
GCCACTGACCAGCCTGGGACTGCCCCCTGATGTCCAGCGAGTGGATGCCGCCCTTAACTGGAGCAAAAACAAGAA
GACATACATCTTTGCTGGAGACAAATTCTGGAGATACAATGAGGTGAAGAAGAAAAATGGATCCTGGCTTCCCCAA
GCTCATCGCAGATGCCCTGGAATGCCATCCCCGATAACCTGGATGCCGCTCGTGGACCTGCAGGGCGGCGGTACAG
CTACTTCTTCAAGGGTGCCATTACCTGAAGCTGGAGAACCAGTCTGAAGAGCGTGAAGTTTGGGAAGCATCAA
ATCCGACTGGCTAGGCTGCTGAGCTGGCCCTGGCTCCACAGGCCCTTCTCTCCACTGCCTTCGATACACCGGG
CCTGGAGAACTAGAGAAGGACCCGGAGGGGCTGGCAGCCGTGCCTTACGCTCTACAGCTAATCAGCATTTCTCAC
TCCTACCTGGTAATTTAAGATTCCAGAGAGTGGCTCCTCCCGTGCCCCAAGAATAGATGCTGACTGTACTCCTCC
CAGGCGCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGATACTTTGATATTTTCAACGC
AGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTCAGGCTCTTCTCCTTTACAACTTCTGTGGCTCACAGA
ACCCCTGGAGCCAATGGAGACTGTCTCAAGAGGGCACTGGTGGCCCGACAGCCTGGCACAGGGCAGTGGGACAGG
GCATGGCCAGGTGGCCACTCCAGACCCCTGGCTTTTCACTGCTGGCTGCCCTTAGAACCTTCTTACATTAGCAGT
TTGCTTTGTATGCATTTGTTTTTTCTTTGGGTCTGTTTTTTTTTCCACTTAGAAATTGCATTTCTGACAG
AAGGACTCAGGTTGTCTGAAGTCACTGCACAGTGCATCTCAGCCACATAGTATGTTCCCTGTTCACTCTAC
TTAGCATGTCCCTACCGAGTCTTCTTCCACTGGATGGAGGAAAACCAAGCCGTGGCTTCCCGCTCAGCCCTCCC
TGCCCTCCCTTCAACCATTCCCCATGGGAAATGTCAACAAGTATGAATAAAGACACCTACTGAGTGGC

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FIGURE 4485

CACATGTAACTACTTGAAGCTCCATTTTCATCTTTTTTCATACCATCTCTAAGATTGCTGCCGCATTGCTTGTTA
AACTGAAAGCATGTTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGTCTTGGAGAAGCTCTTGGAGGCCT
CTTTGGAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATTT
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACCGCCTCCCACTCAGCAGCATTTACCAGTGTGGAGGC
CTCAGAAAGTGAGGAAGTTAGGCGATTTTCGGCAACAATTTACACAGCTGGCTGGACCAGACATGGAGGTGGGTGC
CACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGACGGTTTTAGTCTTGA
CACCTGCCGGAGCATTGTGTCTGTCTGTCATGGACAGTGACACGACTGGTAAGCTGGGCTTTGAAGAATTTAAGTATCT
GTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGGACCATTCTGGGTCTCTGGGAAGTTC
TCAGCTGCCGGGAGCTCTGCAGGCCGAGGCTTCAGCTAAATGAACAACTTTACCAAATGATTGTCCGCCGGTA
TGCTAATGAAGATGGAGATATGGATTTTAAACAATTTTCATCAGCTGCTTGGTCCGCCTGGATGCCATGTTTCGTGC
CTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGATTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTA
TTCTTGAAGTGGGAAGTGAAGAAGTCAAGATCCTCCCTGGAGGACAGGACTGAAAACCTTGCCAAGCTGTACACAG
TTGCTGATACCCTGTGCAACAGCTCTCATTTCCTGGCAAGCTCTTTCAACAACCCTACATATTTCTGATCATGTGC
TGCCTTTTACTGCTGAATTAAACAGATATTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4865/6881
FIGURE 4486

MFLAKALLEGADRLGEALGGGQRRREGGGRNIGGIVGGIVNFISEAAAAQYTPEPPPTQQHFTSVEASES
EEVRRFRQQFTQLAGPDMEVGATDLMNINLKVLSKHKDLKTDGFSLDTCRSIVSVMSDITGKLGFEETFYLWNN
IKKWQCVYKQYDRDHSGSLGSSQLRGALQAAGFQLNEQLYQMIVRRYANEDGDMDFNNFISCLVRDAMFRAFKS
LDRDRDGLIQVSIKEWLQLTMYS

4866/6881

FIGURE 4487

CCTCGGCGTGCCCCCAGGACCGGTAAAGTTCTCTCGCCAGCCGCATCCATGCTTCTGGCGCGGATGAACCCGCA
GGTGCAGCCCGAGAACAAACGGGGCGGACACGGGTCCAGAGCAGCCCTTCGGGCGCGCAAACTGCGGAGCTGCT
GGTGGTGAAGGAGCGCAACGGCGTCCAGTGCCTGCTGGCGCCCGCGACGGCGACGCGCAGCCCCGGGAGACCTG
GGGCAAGAAGATCGACTTCTGCTGTCCGTAGTCGGCTTCGCAGTGGACCTGGCCAACGTGTGGCGCTTCCCTTA
CCTCTGCTACAAGAACGGCGGGTGCCTTCTTGATCCCGTACACACTGTTCTTATCATCGGGGGATGCCCTT
GTTCTACATGGAGCTGGCTCTGGGACAGTACAACGGGAGGGGGCTGCCACCGTTTGGAAAATCTGCCATTCTT
CAAAGGCGTTGGCTATGCTGTATCCTGATCGCCCTGTACGTTGGCTTCTACTACAACGTATCATCGCCTGGTC
ACTCTACTACCTCTTCTCCTCCTTACCCTCAACCTGCCCTGGACCGACTGTGGCCACACCTGGAACAGCCCCAA
CTGTACCGACCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACCACACCAAGTACTCCAAGTACAAGTTACAGCC
GGCAGCCGAGTTTTATGAGCGTGGTGTCTGCACCTTCACGAGAGCAGCGGGATTCATGACATCGCCCTGCCCA
GTGGCAGCTCTTGCTCTGTCTGATGGTGTCTGTCATCGTCTGTATTTTAGCCTCTGGAAAGGGGTGAAGACATC
AGGAAAGGTGGTGTGGATCACAGCCACGCTGCCTTACTTCGTGCTGTTCTGTGCTCCTGGTCCATGGCGTCACGCT
GCCCCGAGCCTCCAATGGCATCAATGCCTACCTGCACATCGACTTCTACCGCTTGAAGAGGGCCACGGTATGGAT
TGATGCCGCAACTCAGATATTTTTTCTTGGGGGCTGGATTGGAGTATTGATTGCATTGGCCAGTTACAACAA
ATTTGACAACAAGTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCCTCTGGGTT
CGCCATCTTCTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGC
TGGCCTAGTGTTCATCCTGTATCCAGAGGCCATTCTACCTGTCTGGATCTACATTCTGGGCTGTGTGTTTTT
CGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTCATCACGGGCCTGGCAGATGA
CTTCAGGTCTTGAAGCGACACCGGAACTCTTCACATTTGGCGTCACCTTCAGCACCTTCCTTCTCGCCCTGTT
CTGCATAACCAAGGGTGGAATTTACGTCTTGACCTCCTGGACACCTTTGCTGCGGGCACCTCCATCCTTTTTTG
TGTCTCATGGAAGCCATCGGAGTTTCTTGTTTTATGGAGTGGACAGGTTACAGCAACGACATCCAGCAGATGAT
GGGGTTAGGCCGGGTCTATACTGGAGACTGTGCTGGAAGTTCGTAGTCTGCTTCTCCTGTTCTGTTGGTTGT
GGTCAGCATCATCAACTTCAAGCCACTCACCTACGACGACTACATCTTCCCGCCCTGGGCCAACTGGGTGGGGTG
GGGCATCGCCCTGTCTCCATGGTCTGCTGGTCCCATCTACGTATCTATAAGTTCTCAGCACGCAGGGCTCTCT
TTGGGAGAGACTGGCCTATGGCATCACGCCAGAGAACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGTT
CCAGTTGCAACACTGGCTGGCCATCTGAGCCTGCCTGGAGGAGAAGGAGGAACCCCATGCCAATGTCCAGGTCA
CAGGCATCCGCTGCGCTCCACCTCGGACACCATCTGGGATTCTCCCTGGAAGTTGTCTTTCTGATCCTCT
CTTCTTTTCCATTTACAAATGATTTCTGACTGTAGTTTTTGTTCACCTTCTGTGCATCTGGCCTGGGGGCTGT
TAGCTCAGAGGAGAGGAGCAAACAGGAAAATGACTT

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FIGURE 4488

MLLARMNPQVPENNGADTGPEQPLRARKTAELLVVKERNGVQCLLAPRDGDAQPRETWGKKIDFLLSVVGFAVD
LANVWRFPYLCYKNGGGAFLIPYTLFLIIAGMPLFYMELALGQYNREGAATVWKICPFFKGVGYAVILIALYVGF
YYNVIIAWSLYYLFSSFTLNLPWTD CGHTWNSPNCTDPKLLNGSVLGNHTKYSKYKFTPAAEFYERGVLRHLHES
GIHDIGLPQWQLLLCLMVVVIVLYFSLWKGVKTSKVVWITATLPYFVLFVLLVHGVTLPGASNGINAYLHIDFY
RLKEATVWIDAATQIFFSLGAGFGVLIASFYNKFDNNCYRDALLTSSINCITSFVSGFAIFSILGYMAHEHKVN
IEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSSMGGMEAVITGLADDFQVLKRHRKLFTFGVT
FSTFLLALFCITKGGIYVLTLLDTFAAGTSILFAVLMEAIGVSWFYGVDRFSNDIQMMGFRPGLYWRLCWKFVS
PAFLLFVVVVSII NFKPLTYDDYIFPPWANWVGWGIALLSSMVLVPYVVIYKFLSTQGS LWERLAYGITPENEHHL
VAQRDIRQFQLQHWLAI

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FIGURE 4489

GAACTGTCGCCCTTCCAGGATGTGGCTCCCTGCTCTTGTCTGCGCCACTCTCGCTGCTTCCGCGGCTTGGGGGCA
TCCGTCCTCGCCACCTGTGGTGGACACCGTGCA TGGCAAAGTGCTGGGGAAGTTCGTCAGCTTAGAAGGATTTGC
ACAGCCTGTGGCCATTTTCTGGGAATCCCTTTTGCCAAGCCGCTCTTGGACCCCTGAGGTTTACTCCACCGCA
GCCTGCAGAACCATTGGAGCTTTGTGAAGAATGCCACCTCGTACCTCTCTATGTGCACCCAAGATCCCAAGGCGGG
GCAGTTACTCTCAGAGCTATTTACAAACCGAAAGGAGAACATTCTCTCAAGCTTTCTGAAGACTGCTTTACCT
CAATATTTTACTCTCTGCTGACTTGACCAAGAAAAACAGGCTGCCGGTGATGGTGTGGATCCACGGAGGGGGGCT
GATGGTGGGTGCGGCATCAACCTATGATGGGCTGGCCCTTGCTGCCCATGAAAACGTGGTGGTGGTGACCATTCA
ATATCGCCTGGGCATCTGGGGATTCTTCAGCACAGGGGATGAACACAGCCGGGGGAAGTGGGGTACCTGGACCA
GGTGGCTGCCCTGCGCTGGGTCCAGGACAACATTGCCAGCTTTGGAGGGAACCCAGGCTCTGTGACCATCTTTGG
AGAGTCAGCGGGAGGAGAAAGTGTCTGTGTTCTTGTGTTTGTCTCCATTGGCCAAGAACCTCTTCCACCGGGCCAT
TTCTGAGAGTGGCGTGGCCCTCACTTCTGTGTTCTGGTGAAGAAAGGTGATGTCAAGCCCTTGGCTGAGCAAATTGC
TATCACTGCTGGGTGCAAACACCACCTCTGCTGTGATGGTTCACTGCGCTGCGACAGAAGACGGAAGAGGAGCT
CTTGGAGACGACATTGAAAATAAATTCTTATCTCTGGACTTACAGGGAGACCCAGAGAGAGTCAACCCCTTCTG
GGCACTGTGATTGATGGGATGCTGCTGCTGAAAACACCTGAAGAGCTTCAAGCTGAAAGGAATTTCCACACTGTC
CCCTACATGGTTCGAATTAACAAGCAGGAGTTTGGCTGGTTGATTCCAATGTTGATGAGCTATCCACTCTCCGAA
GGGCAACTGGACCAGAAGACAGCCATGTCACTCCTGTGGAAGTCTATCCCTTGTGTTGCAATTGCTAAGGAACTG
ATTCCAGAAGCCACTGAGAAATACTTAGGAGGAACAGACGACACTGTCAAAAAGAAAGACCTGTTCTGGACTTG
ATAGCAGATGTGATGTTTGGTGTCCATCTGTGATTGTGGCCCGGAACCAAGAGATGCTGGAGCACCCACCTAC
ATGTATGAGTTTCAGTACCGTCCAAGCTTCTCATCAGACATGAAACCCAAGACGGTGATAGGAGACCACGGGGAT
GAGCTCTTCTCCGCTTTTGGGGCCCCATTTTTAAAGAGGGGTGCCTCAGAAGAGGAGATCAGACTTAGCAAGATG
GTGATGAAATTCTGGGCCAACTTTGCTCGCAATGGAAACCCCAATGGGGAAGGGCTGCCCCACTGGCCAGAGTAC
AACCAGAAGGAAGGGTATCTGCAGATTGGTGCCAACACCCAGGCGGCCGAGAAGCTGAAGGACAAAGAAGTAGCT
TTCTGGACCAACCTCTTTGCCAAGAAGGCAGTGGAGAAGCCACCCAGACAGAACACATAGAGCTGTGAATGAAG
ATCCAGCCGGCCTTGGGAGCCTGGAGGAGCAAAGACTGGGGTCTTTTGCAGAAAGGATTGCAGGTTTCAAGGCA
TCTTACCATGGCTGGGGAATTGTCTGGTGGTGGGGGGCAGGGGACAGAGGCCATGAAGGAGCAAGTTTTGTATTT
GTGACCTCAGCTTTGGGAATAAAGGATCTTTTGAAGGCC

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FIGURE 4490

CTCCGCCAGGACCCCCGAGGGCGAGCGCCTGGGGGGCGCGGCCTTGCTCGCGGGAGCGCTGCTGAGGGAGAGTGG
TTCTAGTAAATACCGCTTGCTGTGTTTTGATGTTGGTGGCTAAGCTCATCCAGTGTATTGTGTTTGGCCCTCTTC
GAGTGAGTGAGAGACAGCATCTCAAAGACAAATTTTGAATTTTATTTTCTACAAGTTCATTTTCATCTTTGGTG
TGCTGAATGTCCAGACAGTGAAGAGGTGGTCAITGTGGTGCCTCTGGTTTGCCGGACTTGCTTTTCTGCACCTGA
TGGTTTCAGCTCTGCAAGGATCGATTTGAATATCTTTCCTTCTCGCCACCACGCCGATGAGCAGCCACGGTCGAG
TCCTGTCCCTGTTGGTTGCCATGCTGCTTTCCCTGCTGTGGACTGGCGGCCGTCTGTCCATCACCGGTACACCC
ACGGAATGCACACCTTTGGCTTTTCATGGCTGCAGAGTCTCTTCTTGACAGTGAGGACTGCTCATGTGATTTTAC
GATACGTAATTCACCTCTGGGACCTCAACCACGAAGGGACGTGGGAAGGAAAGGGACGTATGTCTATTACACAG
ACTTTGTCTAGGAGCTCACTCTCTGCTCCCTGGACCTCATGCACCATATTACATGTTGTTATTTGGCAACATCT
GGTTATCCATGGCCAGCCTGGTCATCTTTATGACGCTGCGTTACCTGTTTCATGAGGTGCAACGTGCAATTCGTC
GGCACAAGAACTATCTACGTGTGGTTGGAAACATGGAGGCCAGGTTTGCAAGTTGCAACTCCAGAGGAGCTGGCTG
TCAACAATGACGACTGTGCCATCTGTTGGGACTCCATGCAGGCTGCGCGGAAACTGCCCTGTGGACATCTTTTCC
ACAACCTCTGTCTTCGTTCCCTGGCTAGAACAAAGACACCTCCTGTCCAACATGCAGAATGTCTCTTAATATTGCCG
ACAATAATCGTGTGAGGGAAGAACATCAAGGAGAGAAGTTGGATGAGAATTTGGTTCTGTAGCAGCAGCCGAAG
GGAGACCTCGCTTAAACCAACACAATCACTTCTTCCATTTTCGATGGGTCTCGGATTGCGAGCTGGCTGCCGAGTT
TTTCGGTTGAAGTGATGCACACCACCAACATTCTTGGCATTACGAGGCCAGCAACTCCCAGCTCAATGCAATGG
CTCATCAGATTCAAGAGATGTTTCCCCAGGTTCCATACCATCTGGTACTGCAGGACCTCCAGCTGACACGCTCAG
TTGAAATAACAACAGACAATATTTTAGAAGGACGGATTCAAGTACCTTTTCTTACACAGCGGTGAGATAGCATCA
GACCTGCATTGAACAGTCTGTGAAAGGCCAAGCAGTGACCAGGAAGAGGGAGAACTTCTGCTCAGACCGAGC
GTGTGCCACTGGACCTCAGTCTCGCCTGGAGGAGACGCTGGACTTCGGCGAGGTGGAAGTGGAGCCCAGTGAGG
TGGAAGACTTCGAGGCTCGTGGGAGCCGCTTCTCCAAGTCTGCTGATGAGAGACAGCGCATGCTGGTGCAGCGTA
AGGACGAACTCCTCCAGCAAGCTCGCAAACGTTTCTTGAACAAAAGTTCTGAAGATGATGCGGCCTCAGAGAGCT
TCCTCCCCTCGGAAGGTGCGTCTCTGACCCCGTGACCCCTGCGTCTGAAGGATGCTGGCTGCCGCCGCGGAACGGA
GGCTTCAGAAGCAGCAGACCTCCTAGCGCTCCCTTGCCCTTCTCAGCTGCCTCCTGCGCCCTGTGCCGACTGAC
TGGAGGAGGCCTGTCCCAATTCTGCCCGCTCCATGGAAAAGCGGGCTTGACTGCATTGCCGCTGTATAAAGCATG
TGGTCTTATAGTGTTTGGACAGCTGATAAATTTAATCCTTCTTTGTAATACTTTCTATGTGACATTTCTCTTCCC
CTTAGAAACACTGCAAATTTTAACTGTAGGTATGATCTCTTCTGGTGTGACTGGACTGCTTGGGGTGGGGGACG
ATCAGGAGGAAGTGAGCAGTCGCTGCCTGCAGCAGGCAGCTTCTACTCCTGCCTCATGCGTACGTCACCAAAAT
GCAGGTGCTCTGAGCACCACACCCAGTGGGAAGAGTGTGGGGGAGGCGCACAGTGTGAGCCCGCCCCACGTCGT
GGGGTAACATCTGTTATCAAACCTGCTGTCGTTGTTGTGGAAGCATGTAGACTGTGCCAGAGGCCAGACCCACGGG
CTCATGCACCCCTGAGCCAGCAGGGCATCTTGAAAAGGAACCTTGGTTTCGATACCTGGAGCAGAGGAGGGGAA
AGTCCAGGGCTATAGGGTGTGATGAAGTACCCCTTCTGTCCCACTACATCTGGGACTGACTTTCCGAGCCTCC
AGTCCAAAGCCGGCTTGATTTCCGTGAACCTCTGGTGTCTCTGCATCTCATGAGTGTGCCCCATGGGTCCCTCCC
CTCTCAGCATTTCTTGTCCCGTCTGGACCTGGGGAGTGGTTAGGCAGCAAGCTTTGGTTTATGGTTTTTCATTCA
TTGGTGAAGTAAATTAGGCAGTGCTAAAGCCTGTGGGTTTGGTCCTTGAACAAGATGTGGGCCTTGCAAGATGGG
AGAGTAAACCTTGAAGGGCTTTATTAAAGAAATAAAAAAGAACTTTGTATCTTTTATCCTGGGAGCACTGCGTT
TTCCTAGCTGTGTTATTCCTGGTTTAATTCAGCAGAGAAGGTAAGGTGTGAACCTACCTGCCTTGAGAGGGCCC
AGGTCCCAAATCTCTTCAAATCTTCACATGTTTAACTTTAAGGATTTGAACCATGAAGTCATAGGTTACAGACC
TCAGTTTTATGCCCCATTGGATTACTTTTTTTTTTTTTTTTTTTTTTTTACTCTTTGAAAGCTTTGTTT
TGTGGTAGTCCTTTTGGGAAGAATCCAGTATTATCCACAATTATTGGCAAAGTTTAAATGTATTTTACATAACGG
AAAGTTTTTAGAATGTTGAAAAGTAATTGAAAAGGTGATAGGTAAATTTTTAGGCAAAGATAATTTATTTCAAT
AAATCTTTCAAAGCCTTACCTTGAAATGCTGTAGTAAATTTCTGTGATTTTTTTTTTAAATTTGTTTTGCTGA
GAGCATAGCTATTTGTTTTTATTGTAAA

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FIGURE 4491

CTTGTTTCGTCTCACTGGTGTGAGCTCCAGCATCCCCCTTTGCTCGAAATGACCCCAACTGCTCTTGCGCCACTGG
TGGCTCCTGCACGTGCGCCGGCTCCTGCAAGTGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGTGAGTGCGG
GGCCATCTCCAGGAATCTGGGGCTGTGGCTCAGGTTGGGAGGGAAGTCAAGGCTGGCCCTGAGTGCATCCTTCTG
GGGAAGTGGGCTTTCTTTGCCCTCATTGCCCGTGTATTCCCTCTCCAGGCTTTCTGCCCTAAATTCAGATGGGG
CAGGACAGCATTTTTCTCGTGGGACACAAACCCCAACTGTACCCCTATGGTTTCAGAACAGAGCTGTGCCAGAC
GAAAAAAGCATCCTCTGGGTCTGGGTTCTGAGCTCGAGCCAGGCTTGCTATTAGGGCAGGGAGGTGCCCCGGTCA
AGTCTACTGCCACCTCTCACTCTCCCCTTCTTCCCAGGCTGCTGTTCTGCTGCCCCGTGGGCTGTGCCAAGTG
TGCCAGGGCTGCGTCTGCAAAGGGGCATCGGAGAAGTGCAGCTGCTGTGCCTGATGTGGGAACAGCTCTTCTCC
CAGATGTAAATAGAACACCTGCACAACCTGGATTTTTTAAAAATACAACACTGAGCCATTTGCTGCATTTCTT
TTTATACTAAATATGTGACTGACAATAAAAAACAATTTTGACTTT

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FIGURE 4492

MDPNCSCATGGSCTCAGSCKCKECKCTSCCKSECGAISRNGLWLRLGGNSRLALSASFSGTGLSLPSLPVSFPL
QAFCKFERWGRTAFFSWDTNPNCTPYGFRTELCQTKKSILWVWLSSSQACY

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FIGURE 4493

CCGCTGCGTGTTTTCTCTGTGATCGGGAACTCCTGCTTCTCCTTGCCTCGAAATGGACCCCAACTGCTCCTGCTC
GCCTGTTGGCTCCTGTGCCTGTGCCGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTG
CTGCTCCTGCTGCCCTGTGGGCTGTGCCAAGTGTGCCCAGGGCTGCATCTGCAAAGGGACGTCAGACAAGTGCAG
CTGCTGTGCCCTGATGCCAGGACAGCTGTGCTCTCAGATGTAAATAGAGCAACCTATATAAACCTGGATTTTTTTT
TTTTTTTTTTTTGTACAACCCTGACCCGTTTGCTACATCTTTTTTCTATGAAATATGTGAATGGCAATAAATTC
ATCTAGACT

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FIGURE 4494

MDPNCSCSPVGSCACAGSCKCKECKCTSCCKSCCSCPVGCAKCAQGCICKGTSDKSCCA

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FIGURE 4495

CTGAGCGACAGCAAGTGCAGCGGGCTCCTACCCCGGGTGAGGGGTGGCCTCCGCGTGGGATCGTGCCCTCTTCAG
CCCGCTCCTGTCCCCGACATCACGTGTATTCCGCACGTCCCCCTCCGCGCTGTGTGTCTACTGAGACGGGGAGGCG
TGACAGGGCCCGGGTCCCTTCTCAGTGGTGCTCTGTGCTTCAGGGCAAGCTCCCCGTCTCCGGGCGCACTTCCCT
CGCCTGTGTTGGTCCATCCTCCTTTCTCCAGCCTCCTCCCCCTCGCAGGTGGGATCGTCGGTGGGACCGGAGCGC
GGGCGGGCGCGGCCCCCCGGGACCATGGCCGGGTCCGACACCGCGCCCTTCCTCAGCCAGGCGGATGACCCGGAC
GACGGGCCAGTGCCTGGCACCCCGGGGTGCCAGGGTCCACGGGGAACCCGAAGTCCGAGGAGCCCGAGGTCCCG
GACCAGGAGGGGCTGCAGCGCATCACCGGCCTGTCTCCCGCCGTTCGGCTCTCATAGTGGCGGTGCTGTGCTAC
ATCAATCTCCTGAACTACATGGACCGCTTACCCTGGCTGGCGTCCTTCCCGACATCGAGCAGTTCTTCAACATC
GGGGACAGTAGCTCTGGGCTCATCCAGACCGTGTTCATCTCCAGTTACATGGTGTGGCACCTGTGTTGGCTAC
CTGGGTGACAGGTACAATCGGAAGTATCTCATGTGCGGGGGCATTGCCTTCTGGTCCCTGGTGACACTGGGGTCA
TCCTTCATCCCCGAGAGCATTCTGGCTGCTCCTCCTGACCCGGGGCTGGTGGGGGTGGGGAGGCCAGTTAT
TCCACCATCGCGCCCACTCTCATTGCCGACCTCTTTGTGGCCGACCAGCGGAGCCGGATGCTCAGCATCTTCTAC
TTTGCCATTCCGGTGGGCACTGGTCTGGGCTACATTGCAGGCTCCAAAGTGAAGGATATGGCTGGAGACTGGCAC
TGGGCTCTGAGGGTGACACCGGGTCTAGGAGTGGTGGCCGTTCTGCTGCTGTTCTGGTAGTGGGGAGCCGCCA
AGGGGAGCCGTGGAGGCCCACTCAGATTGCCACCCCTGAACCCACCTCGTGGTGGGCAGATCTGAGGGCTCTG
GCAAGAAATCCTAGTTTCGTCTGTCTTCCCTGGGCTTCACTGCTGTGGCCTTGTACGGGCTCCCTGGCTCTG
TGGGCTCCGGCATTCTGTGCTGCGTTCCCGCGTGGTCTTGGGGAGACCCACCCTGCCTTCCCGGAGACTCCTGC
TCTTCTCTGACAGTCTCATCTTTGGACTCATCACCTGCCTGACCGGAGTCTGGGTGTGGGCCTGGGTGTGGAG
ATCAGCCGCCGGCTCCGCCACTCCAACCCCGGGCTGATCCCTGGTCTGTGCCACTGGCCTCCTGGGCTCTGCA
CCCTTCTCTTCTGTCCCTTGCTGCGCCGTGGTAGCATCGTGGCCACTTATATTTTCATCTTCATTGGAGAG
ACCCTCCTGTCCATGAACTGGGCCATCGTGGCCGACATTCTGCTGTACGTGGTGATCCCTACCGAGCTCCACC
GCCGAGGCCTTCCAGATCGTGTGTGCCACCTGCTGGGTGATGCTGGGAGCCCTACCTCATTGGCCTGATCTCT
GACCGCTGCGCCGGAAGTGGCCCCCTCCTTCTGTGTCGAGTTCGGGGCTCTGCAGTTCTCGCTCATGCTCTGC
GCGTTTGTGGGGCACTGGGCGGCGCAGCCTTCTGGGCACCGCCATCTTCATTGAGGCCGACCGCGGGCGGGCA
CAGCTGCACGTGCAGGGCTGCTGCACGAAGCAGGGTCCACAGACGACCGGATTGTGGTGCCCCAGCGGGGCCG
TCCACCCGCGTGCCCGTGGCCAGTGTGCTCATCTAGAGAGGCTGCCGCTCACCTACCTGCACATCTGCCACAGCTG
GCCCTGGGCCCCACCCACGAAGGGCCTGGGCCTAACCCCTTGGCCTGGCCAGCTTCCAGAGGGACCCTGGGCCG
TGTGCCAGCTCCAGACACTACATGGGTAGCTCAGGGGAGGAGGTGGGGGTCCAGGAGGGGATCCCTCTCCACA
GGGGCAGCCCCAAGGGCTCGGTGCTATTTGTAACGGAATAAAATTTGTGCCAGAAAAAAAAAAAA

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FIGURE 4496

MAGSDTAPFLSQADDPDDGPVPGTPGLPGSTGNPKSEEPVDPQEGLRITGLSPGRSALIVAVLCYINLLNYMD
RFTVAGVLPDIEQFFNIGDSSSGLIQTVFISYMLAPVFGYLGDRYNRKYLMCGGIAFWSLVTLGSSFIPGEHF
WLLLLTRGLVGVGEASYSTIAPTILIADLFVADQSRMLSIFYFAIPVGSGLYIAGSKVKDMAGDWHWALRVTPG
LGVVAVLLLFLVVREPPRGAVRHSDDLPLNPTSWWADLRALARNPSFVLSSLGFTAVAFVTGSLALWAPAFLLR
SRVVLGETPPCLPGDSCSSSDSLIFGLITCLTGVLGVLGVEISRRLRHSNPRADPLVCATGLLGSAPFLFLSLA
CARGSIVATYIFIFIGETLLSMNWAIVADILLYVVIPTRRSTAEAFQIVLSHLLGDAGSPYLIGLISDRLRRNWP
PSFLSEFRALQFSLMLCAFGALGGAFLGTAIFIEADRRRAQLHVQGLLHEAGSTDDRIVVPQRGRSTRVPVAS
VLI

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FIGURE 4497

GGCGCGGAGGAGGAGGTTCCCGGAAGCCACGCGCAGCTGGAGCAGCGGCGACCGCAGCTGGAGGCCCGGAGCGCC
TGC GG GCTGGCAGAGGCGAGGGAGGTTGCGGGTAGGAAGGGCGGA CTGCGCGCGCCCCCTGCGTCCCGCGCACC
TCGGGGCCGGTCCATGCTCCCGACGGCTGCGGGCTTCAGCATCTGGGGCCAGGTGGGGCGGCGGGGTCCAGGGC
GCAGGTGGTGC GGCCGATGCGCCGGGCGGAGGCTGAGGCCGCGCTGCGGGGCTGGGACAGCACTGGCATCTCCA
GAGCAGGCCCGGGGCGCAAGGGAGGCGCCGCGATGCCAGACGAAAATATCTTCCTGTTCTGTGCCAACCTCATC
GGTTATGCCCCGATTGTCTTCGCCATCATTCTTTCTACTTCATGCCCTGCTGCCCCCTCACGGCCTCCTCCTTC
TACCTGCTCAGCGGCCTGCTGGACGCTTTTCGATGGACACGCTGCTCGCGCTCTTAATCAAGGAACCCGGTTTGGG
GCCATGCTGGACATGCTGACGGACCGCTGCTCCACCATGTGCTGTTGGTCAACCTGGCCCTGCTGTACCCTGGA
GCCACGCTGTTCTTCCAAATCAGCATGAGTTTGGATGTGGCCAGTCACTGGCTGCACCTCCACAGTTCTGTGGTC
CGAGGCAGTGAGAGTCACAAGATGATCGACTTGTCCGGGAATCCGGTGCTTCGGATCTACTACACCTCGAGGCCT
GCTCTGTTACCTTGTGTGCTGGGAATGAGCTCTTCTACTGCCTCCTCTACCTGTTCCATTTCTCTGAGGGACCT
TTAGTTGGCTCTGTGGGACTGTTCCGGATGGGCCTCTGGGTCACTGCCCCCATCGCCTTGCTGAAGTCGCTCATC
AGCGTCATCCACCTGATCACGGCCGCCCCGCAACATGGCTGCCCTGGACGCAGCAGACCGCGCCAAGAAGAAGTGA
CGCTGGAGCCCCGGGTCTGGCTGCCCACCTGCCCTGGGAGTCTTGCTGTGCCACACAGCTCCCCACCCCTGCT
AGGAGGTCCCAGTCTCACGCCCTTCTCATGTGTTGTTCTACCTGCTGGGATGGGGGTACAGCCTCTCTTTGGTGAC
GTCACGTTCTCTGGGATCCTGAGGACCCGGGCCTCAAATCAGGGAGGATACGCGGGAGGCCCCCTCCATCCAGGC
GGTGCTCCTGGGGTGCCGGGACCGGGCAGTGTACACCCTGCCTGCTCAGTCTGGGGTCCGAGATGCTAGGGAC
GCTTGAGTGAGGGAGGTGGTGTGAGGGCCAGGTTTCTGAAAGGCGGGAGTCAGACCTCCGCCCCAGCCAGAGC
AAGCTTGGGGCACCATGCCAGGAGGGAAGAAGCCATCCACAGCCTTCCCTGTCACCGGCTCCTCTGTCTGCCT
ACCCTGGTCTCTGGCGGGACTTCACTATTTGACTTGGTTTCTTTTCCAGATATTCTTGGCTCAGGGCCTGGGTTGAG
GGAGCTTAGGGAAGGACGTCCGCTCTGGGTGCTTTTCTCCAGTTTGCTGGCTGGCTTCTCCGCTACCCACAGTG
ACCTCACAGAGAGGCCCTCCTGCCACCCATGCTCATGTGGTGTCCCCACCGCCCACTTGTTTGATGTCACTGACT
GTCTACATGTATTTATATTCTTGATATTTTCTACCCTCACTAGAATGTAACTCCATGAAGGCACAGACTTTTCT
TGTTCTCTTCTATCCCTAGAGTAAGACCAACTTGAACCTGGCATATAGTAGCTGCTTAATAAATACTCGTCTG
TC

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FIGURE 4498

TTCCCCATCTGAGGCGTTTGTTCAGCTACCTGCACTTCTAGATGCTCCCCAGGTTTCATCCTGTGTCTCTCCCC
CACCTACCAGTCATCTTCTTGTGAGCCCTGGGCTTAGGAGTCACCATGGCAACTGAAGAGTTCATCATCCGCATC
CCCCATAACCACTATATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTGGAGGTGCGGCCAAAGACCTAC
ATCCGGCAGGACAATGAGAGGGTACTGTTTGGCCCCATGCGCATGGTGACCGTCCCCCACGTCACTACTGCACA
GTGGCCAACCTGTGTCTCGGGATGCCCAGGGCTTGGTGCTGTTTGATGTACAGGGCAAGTTCGGCTTCGCCAC
GCTGACCTCGAGATCCGGCTGGCCAGGACCCCTTCCCCCTGTACCCAGGGGAGGTGCTGGAAGGACATCACA
CCCCTGCAAGTGGTTCTGCCCAACTGCCCTCCATCTAAAGGCGCTGCTTGATTTGAGGATAAAGATGGAGAC
AAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCTGGCAGCTACATCCCCGGAAGGAAGTGGAGGTCTGTG
GAGATCATTAGGCCACCATCATCAGGCAGAACAGGCTCTGCGGCTCAGGGCCCCGAAGGAGTGTGGGACCGG
GACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTTTGGAG
GAGGTTCTGGATTTGGTGGACGCCGTCATCCTTACGGAAAAGACAGCCCTGCACCTCCGGGCTCGCGGGAACCTC
CGGGACTTCAGGGGAGTGTCCCGCCGCACTGGGGAGGAGTGGTGTTAAGAGTGCAGGACACAGAGGCCACAGTG
CCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCCATCACCACCTGGGCCCCACAACCTACTGCTGATTCTC
GACCTGTGCGACCGGATGGCAAGAATCAGCTGGGGCAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTC
CAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGATGTGTATGTGCTGTGCGAGCAGAGGGGCTGTGCTGAGG
GCCCTGCAGCCCTGGAGGAGGGGAGGATGAGGAGAAGGTCTCACACCAGGCTGGGGACCACTGGCTCATCCGC
GGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAAC
GAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGCGCTGTGATTGGAAGCACTACATGTGACCCAG
GACGAAGTCTGTGGGAGAAAGAGCTGCCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCCTCTGGCA
GACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAGCTAC
CGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGACTACCGAGAGAAGCGAGCCCGCTGGTCTTCGGGCTGAG
CTGGTGTGCTGGGTCTGAGGAGCAGTTCACAGTGTGTCCCTCTCAGCTGGGCGGCCCAAGCGTCCCCATGCC
CGCCGTGCGCTCTGCCTGCTGCTGGGGCTGACTTCTTACAGACGTCATCACCATCGAAACGGCGGATCATGCC
AGGCTGCAACTGCAGCTGGCCTACAACCTGGCACTTTGAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAG
CTCTTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGTGCGGGGGGCGGTGGCCTCT
GTCACTTTTCGATGACTTCCATAAGAACTCAGCCCGCATCATTCGCACTGCTGTCTTTGGCTTTGAGACCTCGGAA
GCGAAGGGCCCCGATGGCATGGCCCTGCCAGGCCCCGGGACCAGGCTGTCTTCCCCCAAACGGGCTGGTGGTC
AGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGATCAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCAGCTG
GCCATCGAGATCACCACTCCAGGAAGCGGCGGCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGC
GGCCGGCTTGAGCGGCAGAAGATCTGGACAGTCAGAAGCCGAGAAAGCTCGCAAGGAACCTTTGGAGCTGGAG
GCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCCAAGGCGGAGGCCGAGTCCCGTGGCGAGGCAGCCCGGATT
GAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAAGCACAGGCCCTTGGCCATTGAAACGGAGGCTGAGCTCCAG
AGGGTCCAGAAGGTCCGAGAGCTGGAAGTGGTCTATGCCCGGGCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAG
CAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAGATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTT
GCTGTGGCTGGGCTGAGATGCAGGTAAAGTCTCCAGTCCCTGGGCTGAAATCAACCCCTCATCACCAGTGGC
TCCACTCCCATCAACCTCTTCAACACAGCCTTTGGGCTGCTGGGGATGGGGCCGAGGGTCAGCCCTGGGCAGA
AGGGTGGCCAGTGGGCCCAGCCCTGGGGAGGGGATATCCCCCAGTCTGCTCAGGCCCCCAAGCTCCTGGAGAC
AACCACGTGGTGCCTGTACTGCGCTAACTCCTGATTAATAACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAA
GTTTCCA

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FIGURE 4499

MATEEFIIRIPPYHYIHVLDQNSNVSrVEVGPKTYIRQDNervLFAPMRMVTVPPrHYCTVANPVSRDAQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLNPtALHLKALLDFEDKDGDKVYAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIrQNQALRLRARKECWDRDGKERVtGEEWLVTTVGAYLPAVFEEVLDLVDVILTEKT
ALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVVPITTLGPHNYCVILDPVGPdGKNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGiYVQDVKTGKVRAViGSTYMLTQDEVLWEKELPPGVEELNKGQDPLADRGKDTAKSLQPLA
PRNKTRVVSyrVPHNAAVQVYDYREKRARVVFgPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTD
VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVSSVDVQSVEPVDQRTDALQRSVQLAIEITtNSQEAAAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA
LAIETEAELOrVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKOMTEAIGPSTIRDLAVAGPEMQVLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGSPSGEGISPOSAQAPQAPGDNHVVEVIR

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FIGURE 4500

AAAGGTTCCCCATCTGAGGCGTTTGTGTCAGCTACCTGCACTTCTAGATTTCATCTTCTGTGAGCCCTGGGCTTA
GGAGTCACCAATGGCAACTGAAGAGTTCATCATCCGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAAC
AGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCCC
ATGCGCATGGTGACCGTCCCCCACGTCACCTACTGACAGTGGCCAAACCCTGTGTCTCGGGATGCCAGGGCTTG
GTGCTGTTTGTATGTCACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTC
CCCCTGTACCCAGGGGAGGTGCTGGAAGGACATCACACCCCTGCAGGTGGTTCTGCCAACACTGCCCTCCAT
CTAAAGGCGCTGCTTGATTTTGAAGATAAAGATGGAGACAAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGA
CCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGTCGTGGAGATCATTAGGCCACCATCATCAGGCAGAACCCAG
GCTCTGCGGCTCAGGGCCCGCAAGGAGTGTGGGACCGGGACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTG
GTCACCACAGTAGGGGCGTACCTCCAGCGGTGTTTGAAGAGGTTCTGGATTGGTGGACGCCGTCATCCTTACG
GAAAGACAGCCCTGCACCTCCGGGCTCGGGCGGAACCTCCGGGACTCAGGGGAGTGTCCCGCCGCACTGGGGAG
GAGTGGCTGGTAACAGTGCAGGACACAGAGGCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCC
ATCACCAACCCTGGGCCCCACAACCTACTGCGTGATTCTCGACCTGTCCGACCGGATGGCAAGAATCAGCTGGGG
CAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTCCAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGAT
GTGTATGTGCTGTCCGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCCCTGGAGGAGGGGGAGGATGAGGAG
AAGGTCTCACACAGGCTGGGGACCACTGGCTCATCCGCGGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAG
GTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAG
GTGCGCGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCTGTGGGAGAAAGAGCTGCCTCCCGGG
GTGGAGGAGCTGCTGAACAAGGGGAGGACCCCTCTGGCAGACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAG
CCCTTGGCGCCCCGGAACAAGACCCGTGTGGTACGTACCGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGAC
TACCGAGAGAAGCGAGCCCGGTGTCTTCGGGCTGAGCTGGTGTGCTGCGTGGGTCTGAGGAGCAGTTCACAGTG
TTGTCCCTCTCAGCTGGGCGGCCAAGCGTCCCCATGCCCGCCGTGCGCTCTGCCTGTGCTGGGGCTGACTTC
TTCACAGACGTATCACCATCGAAACGGCGGATCATGCCAGGCTGCAACTGCAGCTGGCCTACAACCTGGCACTTT
GAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAGCTCTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGC
AAAGCCATCGCATCCCGGGTGCGGGGGGCCGTGGCTCTGTCACTTTTCGATGACTTCCATAAGAACTCAGCCCGC
ATCATTTCGCACTGCTGTCTTTGGCTTTGAGACCTCGGAAGCGAAGGGCCCCGATGGCATGGCCCTGCCCAGGCCC
CGGGACCAAGGCTGTCTTCCCCCAAACGGGCTGGTGGTCAGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGAT
CAGAGGACCCGGGACGCCCCTGCAACGCAGCGTCCAGCTGGCCATCGAGATCACCACCAACTCCCAGGAAGCGGCG
GCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGCGGCCGGCTTGAGCGGCAGAAGATCCTGGACCAGTCA
GAAGCCGAGAAAGCTCGCAAGGAACCTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCC
AAGGCGGAGGCGGAGTCCCGTGCAGGAGGACCCCGATTGAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAA
GCACAGGCCTTGCCATTGAAACGGAGGCTGAGCTCCAGAGGGTCCAGAAGGTCCGAGAGCTGGAACCTGGTCTAT
GCCCCGGGCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAGCAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAGCAG
ATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTTGCTGTGGCTGGGCCTGAGATGCAGGTAAAACCTGCTC
CAGTCCCTGGGCCTGAAATCAACCCCTCATCCCGATGGCTCCACTCCCATCAACCTCTTCAACACAGCCTTTGGG
CTGCTGGGGATGGGGCCCCGAGGGTCAGCCCTGGGCAGAAGGGTGGCCAGTGGGCCAGCCCTGGGGAGGGGATA
TCCCCCAGTCTGCTCAGGCCCTCAAGCTCCTGGAGACAACCACGTGGTGCCTGTACTGCGCTTAACTCTGATT
AATACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAAAAAAGTTTCCA

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FIGURE 4501

MATEEFIIIRIPPYHYIHVLDQNSNVSERVEVGPKTYIRQDNERNVLFAPMRMVTVPBRHYCTVANPVSQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLENTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIIRQNQALRLRARKECWDRDGKERVTEGEWLVTTVGAYLPAVFEEVLDLVDVILTEKT
ALHLRARRNFRDFRGVSRRTEGEWLVTVQDTEAHVPDVHEEVLGVVPIITTLGPHNYCVILDPVGPDKGNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGIYVQDVKTGKVRVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA
PRNKTRVVSYPVPHNAAVQVYDYREKRARVVGPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTD
VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFFDFHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQSVEPVDQRTDALQRSVQLAIEITTNSQEAAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA
LAIETEAEQVRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKQMTAIGPSTIRDLAVAGPEMQVKLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGSPGEGISPSAQAPQAPGDNHVVPVLR

FIGURE 4502

[illegible]

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FIGURE 4503

MSLARGHGDTAASTAAPLSEEGEVTSGLQALAVEDTGGPSASAGKAEDEGEGGREETEREGSGGEEAQGEVPSAG
GEEPAEEDSEDWCVPSCDEEVELPADGQPWMPPPSEIQRLYELLAHGTLELQAEILPRRPPTPEAQSEEERSDE
EPEAKEEEEEKPHMPTÉFDFDDEPVTPKDSLIDRRRTPGSSARSQKREARLDKVLSDMKRHKKLEEQILRTGRDL
FSLDSEDPSPASPLRSSGSSLFPRQRKY

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FIGURE 4504

TGCCGCCGCTCTACGGTGGACACAGCGGCCCTGAAGCAGCCTCCGGCGCCCCCTCCGCCACCCCCGCCAGTGTC
GGCGCCCCGGGCCGAGGCCGCGCCCCCGCCTCCGCCGCCACTATCGCCGCGTCGGCGGCCACCGCCGTCGTAGC
CCCAACCTCGACGGTCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAGAGCAAGGGGCCCTACAT
CTGCGCTCTGTGCGCCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAA
GGCCGGCCGGGTCCCCCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCCCTGAGCCTCCTGAGCGTGCCCCAGCT
GAGCGGAGCCGGCGGGGGAGGGGGAGAGGCGGGTGCCGGCGGCGCGCTGCCGCAGTGCCCGCCGGTGCGTGGT
GACCACGACCGCCTCGGGGAAGCGCATCCGGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCCTCCGCGACGT
CTACCACCTGAACCGACACAAGCTGTGCGACTCGGACGAGAAGCCCTACCAAGTCCCCGGTGTCAGCAGCGCTT
CAAGCGCAAGGACCGCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAACCTGCTCCCA
CTGTGGCAAGAGCTTCTCCCGCCGGATCACCTCAACAGTCACGTCAGACAAGTGCACTCAACAGAACGGCCCTT
CAAAATGTGAGAAATGTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAA
AGTGCCATGTCACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATTTCGGACCACATGAAGGTGCACAGCCAGGG
TCCTCACCATGCTGTGAGCTCTGCAACAAAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGCAGCGGCAGCGGC
GGCAGCGGCAGCAGCGGCAGCAGTAGCAGCCCCCTCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCC
TGTGAGCTCTCAGCCACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGAGAGGGGAGAATGGAGT
AGAGTCCCTTGGTACAAGCTCCTCTCCCCCTCTTTCCCACTCCTATTTCCTACCAACCAAGGAGCCTC
CAGAAGGAAAGGAGGAAGAAATGTTTCTTAGGGGAATTC

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FIGURE 4505

TCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAGAGCAAGGGGCCCTACATCTGCGCTCTGTGCG
CCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAAGGCCGGCCGGGTCC
CCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCTGAGCCTCCTGAGCGTGCCCCAGCTGAGCGGAGCCGGCG
GGGAGGGGGAGAGGCGGGTGCCGGCGGCGCGCTGCCGCAGTGGCCGCCGGTGGCGTGGTGACCACGACCGCCT
CGGGGAAGCGCATCCGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCTTCCGCGACGTCTACCACCTGAACC
GACACAAGCTGTGCGACTCGGACGAGAAGCCCTACCAGTGCCCGGTGTGCCAGCAGCGCTTCAAGCGCAAGGACC
GCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAAGTGTCTCCACTGTGGCAAGAGCT
TCTCCCGCCGGATCACCTCAACAGTCACGTGAGACAAGTGCCTCAACAGAACGGCCCTTCAAATGTGAGAAAT
GTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAAAGTGCCATGTACAG
TGTGTGGCAAGATGTGAGCTCGGCTTATATTTCCGACCACATGAAGGTGCACAGCCAGGGTCTCACCATGTCT
GTGAGCTCTGCAACAAAGGCTTACCACGGCAGCATACTGCGCATCCACGCGGTGAAGGACCACGGGCTCCAGG
CCCCGCGGGCTGACCGCATCTGTGCAAGCTGTGACGCTGCACTGCAAGACCCCTGCCAGCTGGCCGGCCACA
TGCAGACCCATCTGGGGGGGGCGCCCCCTGTCCGGGAGACGCCCCCAGCCACAGCCACCTGCTGAGGGGG
ACCCCGCACCCACCAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGAGCGGCAGCGGCGGAGCGGCAGCAGC
GGCAGCAGTAGCAGCCCTCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCCTGTGAGCTCTCAGCC
ACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGGAGAGGGGAGAATGGAGTAGAGTCCCTTGGTAC
AAGCTCCTCTCCCCCTCTTTTCCACCAACTCCTATTTCCCTACCAACCAAGGAGCCTCAGAAGGAAAGGAGG
AAGAAATGTTTTCTTAGGGGAATTGCTAGGTTTTAACGATTTGTTTTCTCTGCTCCTCTTCTGTGACACCTGAC
CCCACACAAACCTGTCCCTCGGTTGTGTTGAAGTCCCTGGACAGTGGGCAGGGGTGGCAGAGGACACGAGCAG
CCACTGCCCCGTACCCCTCTCCTCTCTGTAAGCCCATGCCCTGTCTTCCAGGGACTTGTGAGCCTCTTCCCTCG
ACGGTCTCTTCTCTCCTTCCAGTCTCTCCCCCTGCTGTCTGCAGCCCTCCCCGGGGAGTTGGTGCTTTCTTT
TCCTTTTTTTTTTTTTTCCAGGGGGAGGGAGGAGAGGAAGGAGGGGATCAGAGCTGTCCCAAAGAGGGAAAGCG
GTGAGGTTTGAGGAGGGGCAGAAGCAGGGCCGGCAAAGTTGTACCTTCATAAGGTGGTATGGGGGGTTGGGGTC
AGGCCCTGAACATCGTCTACTTGAGAATCTGTGAGGGGAAAAAGTCAAGGGGAGCAGGAGGAAGAGCCAGGAGG
GCCAGAGGCAGAGAAGAGATGGAGTCTTAGGGGCCAGGGTGAGCGAGGGGTCCAGGGCCTAGAGGTGCTTCCCTGG
GGGCGGGGAATGCAGCCAGTGTCCCCCTCCCTCTTCCACCCAGCTCCAGCCCTGGTCTTGTCTTTTCATCCC
TCTTCCCCACGACAGAAGAAGTTGTGGCCCTGGCCATGTGATCGTGTTCCTGTGTCCCCTGCATGTACCCACCC
TCCACCCCTTCTTTTTCGCGGACCCCATTAATAAATTTTAAATA

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FIGURE 4506

MKMP TMVPLSLLSVPQLSGAGGGGGEAGAGGGGAAAVAAGGVVTTTASGKRIRKNHACEMCGKA FRD VYHLNRHKL
SHSDEKPYQCPVCQQRFKRKDRMSYHVRSHDGAVHKPYNCSHCGKSFSRPDHLNSHVRQVHSTERPFKCEKCEAA
FATKDRLRAHTVRHEEKVPCHVCGKMLSSAYISDHMKVHSQGP HHVCELCNKGFTTAAYLRIHAVKDHGLQAPRA
DRILCKLCSVHCKTPAQLAGHMQTHLGGAAPLSRET PPSHSPFAEGDP RTHQVLVRFVQWRRQRQRQRQRQQ

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FIGURE 4507

GGGCGGGCCCAAGGAGGGAGTGGAAATGCCGCGGGCGGCTCGACGCAGCAGAGGGCGACGCGAGATGGCGGCAGCT
TCAGCGGCGGCGATCTCAGGAGCTGGTCGCTGTGCGCTAAGCAAGATTGGAGCTACTCGTCGTCCACCTCCAGCT
CGCGTAAGGGTGGCTGTGCGACTGCGGCCATTGTGGATGGAACAGCGGGAGCAAGTGATCCCCCTGTGTGCGG
GGCATGGACAGCTGCTCTCTAGAGATTGCTAACTGGAGGAACCACCAGGAGACTCTCAAATACCAGTTTGATGCC
TTCTATGGGGAGAGGAGTACTCAGCAGGACATCTATGCAGGTTCACTGCAGCCATCCTAAGGCACCTTGCTGGAA
GGGCAGAATGCCAGTGTGCTTGCTATGGACCCACAGGAGCTGGGAAGACGCACACAATGCTGGGCAGCCAGAG
CAACCTGGGGTGATCCCGCGGGCTCTCATGGACCTCCTGCAGCTCACAAGGGAGGAGGGTGCCGAGGGCCGGCCA
TGGGCCCTTTCTGTACCATGTCTTACCTAGAGATCTACCAGGAGAAGGTATTAGACCTCCTGGACCTTGCTTCG
GGAGACCTGGTAATCCGAGAAGACTGCCGGGGGAATATCCTGATTCCGGGTCTCTCCAGAAGCCCATCAGTAGC
TTTGCTGATTTTGAGCGGCACTTCTGCCAGCCAGTCGAAATCGGACTGTAGGAGCCACCCGGCTCAACCAGCGC
TCCTCCCGCAGTCATGCTGTGCTCCTGGTCAAGGTGGACCAGCGGGAACGTTTGGCCCCATTTCGCCAGCGAGAG
GGAAACTCTACCTGATTGACTTGGCTGGGTGAGAGACAACCGGCGCACAGGCAACAAGGGCCTTCGGCTAAAA
GAGAGTGGAGCCATCAACACCTCCCTGTTTGTCTGGGCAAAGTGGTAGATGCGCTGAATCAGGGCCTCCCTCGT
GTACCTTATCGGGACAGCAAGCTCACTCGCCTATTGCAGGACTCTCTGGGTGGCTCAGCCCACAGTATCCTTATT
GCCAACATTGCCCCTGAGAGACGCTTCTACCTAGACACAGTCTCCGCACTCAACTTTGCTGCCAGGTCCAAGGAG
GTGATCAATCGGCCTTTTACCAATGAGAGCCTGCAGCCTCATGCCTTGGGACCTGTTAAGCTGTCTCAGAAAGAA
TTGCTTGGTCCACCAGAGGCAAAGAGAGCCGAGGCCCTGAGGAAGAGGAGATTGGGAGCCCTGAGCCCATGGCA
GCTCCAGCCTCTGCCTCCAGAAACTCAGCCCCCTACAGAAGCTAAGCAGCATGGACCCGGCCATGCTGGAGCGC
CTCCTCAGCTTGGACCGTCTGCTTGCTCCAGGGGAGCCAGGGGGCCCTCTGTTGAGTACCCCAAAGCGAGAG
CGGATGGTGCTAATGAAGACAGTAGAAGAGAAGGACCTAGAGATTGAGAGGCTTAAGACGAAGCAAAAAGAACTG
GAGGCCAAGATGTTGGCCAGAAGGCTGAGGAAAAGGAGAACCATTGTCCACAATGCTCCGGCCCTTTTACAT
CGCACAGTCACAGGGGCAAAGCCCCTGAAAAAGGCTGTGGTGATGCCCCTACAGCTAATTGAGGAGCAGGCAGCA
TCCCCAAATGCCGAGATCCACATCCTGAAGAATAAAGGCCGAAGAGAAAGCTGGAGTCCCTGGATGCCCTAGAG
CCTGAGGAGAAGGCTGAGGACTGCTGGGAGCTACAGATCAGCCCGGAGCTACTGGCTCATGGGCGCCAAAAAATA
CTGGATCTGCTGAACGAAGGCTCAGCCCAGATCTCCGCACTTTCAGCGCATTTGGCCCGAAGAAGGCCAGCTA
ATCGTGGGCTGGCGGGAGCTCCACGGCCCCCTTCAGCCAGGTGGAGGACCTGGAACGCGTGGAGGGCATAACGGGG
AAACAGATGGAGTCTTCTGTAAGGCAAACATCCTGGGTCTCGCCGCGCGCCAGCGCTGTGGCGCTCTCTGACCG
TCGCTCCTCACTCCGCTTTTCAAATTTTGTATAACCCGTGTTGTGTAAATACAGTTTTTGCTCCGGTG

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FIGURE 4508

MAAGGSTQQRREMAAASAAAISGAGRCRLSKIGATRPPPARVRVAVRLRPFVDGTAGASDPPCVRGMDSCSLE
IANWRNHQETLKYQFDAFYGERSTQQDIYAGSVQPILRHLLLEGQNASVLAYGPTGAGKTHTMLGSPEQPGVIPRA
LMDLLQLTREEGAEGRPWALSVTMSYLEIYQEKVLDLLDPASGDLVIREDCRGNILIPGLSQKPISSFADFERHF
LPASRNRTVGATRLNQRSSRSHAVLLVKVDQERLAPFRQREGKLYLIDLAGEDNRRTGNKGLRLKESGAINTS
LFVLGKVVDALNQGLPRVPYRDSKLTLLQDSLGGSAHSILIANIAPERRFYLDTVSALNFAARSKEVINRPFTN
ESLQPHALGPVKLSQKELLGPPEAKRARGPEEEEEIGSPEPMAAPASASQKLSPLQKLSSMDPAMLERLLSLDRLL
ASQGSQGAPLLSTPKRERMVLMKTVEEKDLEIERLKTQKQKELEAKMLAQKAEKENHCPTMLRPLSHRTVTGAKP
LKKAVVMPLQLIQEQAAASPNAEIHILKNKGRKRKLESLEDALEPEEKAEDCWELQISPELLAHGRQKILDLLNEGS
ARDLRSLQRIGPKKAQLIVGWRELHGFFSQVEDLERVEGITGKQMESFLKANILGLAAGQRCGAS

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FIGURE 4509

GTCCTGAGCAGCCAACACACCAGCCCAGACAGCTGCAAGTCACCATGGACGCTGAAGGCCTGGCGCTGCTGCTGC
CGCCCGTCACCCTGGCAGCCCTGGTGGACAGCTGGCTCCGAGAGGACTGCCAGGGCTCAACTACGCAGCCTTGG
TCAGCGGGGCAGGCCCTCGCAGGCGGCGCTGTGGGCCAAATCCCCTGGGGTACTGGCAGGGCAGCCTTTCTTCG
ATGCCATATTTACCCAACCTCAACTGCCAAGTCTCCTGGTTCTTCCCCGAGGGATCGAAGCTGGTGCCGGTGGCCA
GAGTGGCCGAGGTCCGGGGCCCTGCCCACTGCCTGCTGCTGGGGGAACGGGTGGCCCTCAACACGCTGGCCCGCT
GCAGTGGCATTGCCAGTGTGCGCCGCTGCAGTGGAGGCCGCCAGGGGGGCCGGCTGGACTGGGCACGTGGCAG
GCACGAGGAAGACCAGCCAGGCTTCCGGCTGGTGGAGAAGTATGGGCTCCTGGTGGGCGGGGCCGCTCGCACC
GCTACGACCTGGGAGGGCTGGTGATGGTGAAGGATAACCATGTGGTGGCCGCCGGTGGCGTGGAGAAGGCGGTGC
GGGCGGCCAGACAGGCGGCTGACTTCACTCTGAAGGTGGAAGTGAATGCAGCAGCCTGCAGGAGGCCGTGCAGG
CAGCTGAGGCTGGTGCCGACCTTGTCTGCTGGACAACCTCAAGCCAGAGGAGCTGCACCCACGGCCACCCTGC
TGAAGGCCAGTTCCCGAGTGTGGCTGTGGAAGCCAGTGGGGGCATCACCTGGACAACCTCCCCAGTTCTGCG
GGCCGCACATAGACGTCATCTCCATGGGGATGCTGACCCAGGCGGCCCCAGCCCTTGATTTCTCCCTCAAGCTGT
TTGCCAAAGAGGTGGCTCCAGTGCCAAAATCCACTTAGTCTAAACCGGAAGAGGATGACACCGGCCATGGGT
ACGTGGCTCCTCAGGACCTCTGGGTACACATCTTTAGGGTCAGTGGCCAATGGGGCACATTGGCACTAGCTT
GAGCCCAACTCTGGCTCTGCCACCTGTGCTCCTGTGACCTGTGAGGGCTGACTTACCTCTGCTCATCTCAGTT
TCCTAATCTGTAAAATGGGTCTAATAAAGGATCAACC

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FIGURE 4510

MDAEG LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGVLAGQFFDAIFTQLNCQVSWFL
PEGSKLVPVARVAEVRGPAHCLLLGERVALNTLARCSGIASAAAAVEAARGAGWTGHVAGTRKTTPGFRLVEKY
GLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAADFTLKVEVECSSLQEAVQAAEAGADLVLLDNFK
PEELHPTATVLKAQFPSSVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALDFSLKLFKEVAPVPKIH

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FIGURE 4511

GCCTCGGGAGGTGGTGGAGTGACCTGGCCCCAGTGCTGCGTCTTATCAGCCGAGCCGGTCCCAGCTCTTGCTCC
TGCTGTTTGCCTGGAAATGGCCACGCTTCTCCTTCTCCTTGGGGTGCTGGTGGTAAGCCCAGACGCTCTGGGGA
GCACAACAGCAGTGACAGACACCCAGCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTGAGCTCAAAGATGT
ACACCACTTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTT
CCATCAATGAGGGATCCCCTCTTTGGAATTCCATTGGTGCCAGCACTGGTTCCCCCTTACCTGAGCCAACAACCT
ACCAGGAAGTTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCCTGCTGTTCCCA
TAACAGCAAACCTCTCTAGGATCCACACCGTGACAGGTGGAACCATAACAACGAACCTCTCCAGAAACCTCCAGTA
GGACCAAGTGGAGCCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCACCTCTGGACCCCCTCTTA
CCATGGCAACTGTCTCTCTGGAGACTTCAAAGGCACCTCTGGACCCCCTGTTACCATGGCAACTGACTCTCTGG
AGACCTCCACTGGGACCACTGGACCCCCTGTTACCATGACAACCTGGCTCTCTGGAGCCCTCCAGCGGGGCCAGTG
GACCCAGGTCTCTAGCGTAAACTATCTACAATGATGTCTCCAACGACCTCCACCAACGAAGCACTGTGCCCT
TCCGGAACCCAGATGAGAACTCACGAGGCATGCTGCCAGTGGCTGTGCTTGTGGCCCTGCTGGCGGTCTATAGTCC
TCGTGGCTCTGCTCCTGCTGTGGCGCCGGCGGCAGAGCGGCGGACTGGGGCCCTCGTGCTGAGCAGAGGTGGCA
AGCGTAACGGGGTGGTGGACGCTGGGCTGGGCCAGCCAGGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGG
GAGGGTCCGGGGGCGACAAGGGCTCTGGGTCCCCGATGGGGAGGGGTCTAGCCGTCGGCCCCACGCTCACCCTT
TCTTTGGCAGACGGAAGTCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTGAGCCCCAGCCTCA
AAGGGGAGGAGGAGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCCGAAGGGG
GAGACGGGGCTGCCCCCTTAAAGTGTGCGTGAATAGTGAGGCTGGAGGCCGGAATCTCAGCCAGCCTCCAGCACCTT
CCCTCTCACCATCCCACTGCCCCCTCGCTCCCATGTTTCCACCCGGCACCCCTGATCCTCACC CGAATCTCCTTTT
TTTTTTCTTTTGGACAGAGTTTCGCTTTGTGCGCCAGGCTGGAGTGCAATGCACGATCTCAGTTCACTGCAAC
CTCTGCCTCCTAAGTTCAGGCGATTCTCCTGCCTCAGCTTCCCGAGTAACTGAGATTACAGGCACCCACCACCT
GCCCAGCTGCTTTTTTGTATTTTGGTAGAGATGGGGTTTACCATGTTGGCTAGGCTGGTCTCAAACCTCCTGAC
CTCAGGTGATCTACCTGCCTCAGCCTCCCAAAGTGCTGAGATTACAGACATGAGCCTCCGCGCCTTGCCCTCCTCA
CCCACCTCTTCACTCTGAATCCTCATGAGGCTTCTCAGCCCTGGATTTCCTGCTGCCATCCTCACCAGCACCCA
CAACTAGCGCCTGGGCAGGGCAGGGCTGGCACCTCTCAACGCTCTGTGGACTGAATGAATAAACCCCTCCTCATCCA
CCCC

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FIGURE 4512

MATLLLLLGVLVSPDALGSTTAVQTPTSGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTSINEGS
PLWTSIGASTGSPLPEPTTYQEVSIMSSVPQETPHATSHPAVPITANSLGSHTVTGGTITTNPETSSRTSGAP
VITAASSLETSGPPLTMTATVSLETSGTSGPPVTMATDSLETSTGTTGPPVTMTGSLEPSSGASGPQVSS
VKLSTMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLWRRRQKRRTGALVLSRGGKRNGVV
DAWAGPAQVPEEGAVTVTVGGSGDGKSGFPDGEKSSRRPTLTFFGRRKSRQGLAMEELKSGSGPSLKGEERP
LVASEDGAVDAPAPDEPEGGDGAAP

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FIGURE 4513

GGTAACTTCTTGATGTTGCCGTGGCATTGTGTAACCTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTATGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTCAGCCTCATTTTTCCCGGCTCCTATTTAAGATGGAGTTGCTCTGGTTACACACCTCTGA
CATGATCATTGCCACTGCGGCTTCCACCTCCCGGTTCAAGAGATCCTCCTGCCTCACCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTGTAGAGATGGTGTTTTTCCATGTTGCCCA
GGCTGGTCTCAAACCTCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAAGCCCGTGTCAGTCATATCACGCGTAAACATTTGCTTTATGCTAAAAATATGGTGGACCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAATTTATAAAGAAAAAGAGGTTTAATGTACTCACAGTTCACAAGGCTGGAGAGGCCCTCAGAATCAT
GGTGGAAGGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACGAGAACAGTATGGGAAAAACCTGCCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCACGACACATGGGGATTATGGGAACACAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTTTCTAACAATTGTTACATAAATAATTGTTTATTATTGTTT
TCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTTCATTATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCACT
ATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATACAACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAATATACAGGTCTTAAAGGCTGCCCTGCCAACAACCAATAACGCAGGAACAA
ACATCACAACTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAACTGGAATTTCCAGACTTCC
TTTCTGCATTAACCAAGTTTAACTAGACAGTAACGAAATATTCCTACTTTATGCTGTGATAGTTTGTATTATTAT
TATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTGTCAGTGAGCCAGGATCATGCCATTGCACTCCAGCCT
GGTCAACGGAGCGAGACTCCGCCTCATTAATAAAAAAAAAAAAAA

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FIGURE 4514

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCCGCCTTTTTGCGGCCCCCATTTGTGCTGCTGGA
CCCGACGAGCAGTGTGACAGTGAACCCACGTAGACGCGGCCCGGTACCGGGGGTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCGCGGGACCCATCGGGCCTTGGGGTTCGGGAACACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGCAGGAAGCCGTAGCGCCGTACGTGCCCCCTCTCCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTACGCATCGGCTCC
GCCCCAGTCCCACCTTCCTCAGGCTCTGATTGGCTGACACATGCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCCATGGAAGTACAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCTGGTGGTGTGCGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCTGACCCAGACCAGTGGGCACGTGAGCGACAGAAATGAGGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGG

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FIGURE 4515

MASAKSLDRWKARLLEGGSTALTYALVRAEVSFPAEVAPVRQQGSVAGARAGVVSLGCRSSWTAAMELSAEYLR
EKLQRDLEAEHVLPSGGVGQVRGETAASETQVLYRVMRCVTAANQVFFSEAVLTAANERVGVLLGSLDPSMTIH
CDMVITYGLDQLENCQTCGTDYIISVLNLLTLIVEQINTKLPSSFVEKLFIPSSKLLFLRYHKEKEVVAVARAVY
QAVLSLKNIPIVLETAYKLILGEMTCALNNLLHSLQLPESCSEIKHEAFKNHVFNVDNAKFVVKFDLSALTTIGNA
KNSLIGVSL

FIGURE 4516

[illegible]

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FIGURE 4517

MSRQVVRSSKFRHVFGQPAKADQCYEDVRVSQTTWDSGFCVNPKEFVALICEASGGGAFLVLPLGKTGRVDKNAP
TVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLMLPLREPVVTLLEGHTKRVGIVAWHTTAQNVLLSA
GCDNVIMVWDVGTGAAMLTILGPEVHPDTIYSVDWSRDGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVR
AVFVSEGIKILTTGFSRMSEKQVALWDTKHLEELSLQELDTSSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSE
APFLHYLSMFSSKESQRGMGYMPKRGLEVNKCEIARFYKLHERRCEPIAMTVPRKSDLFQEDLYPPTAGPDPALT
AEEWLGGRDAGPLLISLKDGYVPPKSREL RVNRGLDTGRRRAAPEASGTPSSDAVSRLEEEMRKLQATVQELQKR
LDRLEETVQAK

GCCACGAAGGCCGGAGAGCCGGAACCGGAGTCGCGAGCGGCCGAGACCCCTGTGCGGTGCGGAGGGGGCGGCGGCC
CCGACTCTGACCCGCGCCGGGGTGGGCCATGGCGGAGATCAGCGACCTGGACCGGCAGATCGAGCAGCTGCGTC
GCTGCGAGCTCATCAAGGAGAGCGCAAGTCAAGGCCCTGTGCGCTAAGGCCAGAGAGATCTTGGTAGAGGAGAGCA
ACGTGCAGAGGGTGGACTCGCCAGTCAAGTGTGCGGCACATCCATGGACAATTCTATGACCTCAAAGAGCTGT
TCAGAGTAGGTGGCAGCTCCCTGAGACCAACTACCTCTTCATGGGGACTTTGTGGACCGTGGCTTCTATAGCG
TCGAAACGTTCTCTCTGCTGCTGGCACTTAAGGTTGCGTATCTGTATCGCATCACACTGATCCGGGGCAACCATG
AGAGTCGCCAGATCAGCAGGTCTATGGCTTCTACGATGAGTGCCTGCGCAAGTACGGCTCGGTGACTGTGTGGC
GCTACTGCACATGAGATCTTTGACTACCTCAGCCTGTGAGCCATCATCGATGGCAAGATCTTCTGCGTGCACGGGG
GCCTTCTCCCCCTCCATCCAGACCCTGGATCAGATTGCGACAATCGACCGAAAGCAAGAGGTGCCTCATGATGGGC
CCATGTGTGACCTCCCTCTGGTCTGACCCAGAAGACACCACAGGCTGGGGCGTGAGCCCCGAGGAGCCGGCTACC
TATTTGGCAGTGACGTGGTGGCCAGTTCAACGCAGCCAATGACATTGACATGATCTGCCGTGCCACCAACTGG
TGATGGAAGGTTACAAGTGGCACTTCAATGAGACGGTGTCTCACTGTGTGGTTCGGCACCCAACTACTGCTACCGCT
GTGGGAATGTGGCAGCCATCTTGGAGCTGGACGAGCATCTCCAGAAAGATTTTCATCATCTTTGAGGCTGCTCCCC
AAGAGACACGGGGCATCCCCCTCCAAGAAGCCCGTGGCCGACTACTTCTGTTGACCCCCGCCCCGGCCCCCTGCCCCCT
CCAACCCTTCTGGCCCTCGCACCACTGTGACTCTGCCATCTTCCTCAGACGGAGGCTGGGCGTGGGGGGGGCTGT
CCTGGCTCTGCTGTCCCCCAAGAGGGTGCTTCGAGGGTGAGGACTTCTCTGGAGAGGCCTGGAGACCTAGCTCCA
TGTTCTCTCTCTCTCTCCCCACTTGAACCATGAAGTTTCCAATAATTTTTTTTTTCTTTTTTCTTTTCTTTTTTCT
TGTTTGTTTTTTAGATAAAAAATTTTGAGAAAAAAATGAAAAATTTCTAATAAAAGAAGAAAAATGAAAAA
AAAAA
AAAA

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FIGURE 4519

MAEISDLDRQIEQLRRCELIKESEVKALCAKAREILVEESNVQRVDSPTVCGDIHGQFYDLKELFRVGGDVPET
NYLFMGDFVDRGFYSVETFLLLLALKVRYPDRLTLIRGNHESRQITQVYGFYDECLRKYGSVTVWRYCTEIFDYL
SLSAIIIDGKIFCVHGGGLSPSIQTLDQIRTIDRKQEVPHDGPMCDLLWSDPEDTTGWGVSPRGAGYLFSGSDVVAQF
NAANDIDMICRAHQLVMEGYKWHFNETVLTVWSAPNYCYRCGNVAAILELDEHLQKDFIIFEAAPQETRGIPSKK
PVADYFL

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FIGURE 4520

AGTACCGGGTACGCAGGGGTGCCTCAACCACACTCCGTCCACGGACTCTCCGTTATTTTAGGAGGTCCCTGGCCA
AAGATTTATTTCTCTTGACAACCAAGGGCCTCCGTCTGGATTTCCAAGGAAGAATTTCTCTGAAGCACCGGAAC
TTGCTACTACCAGCACCATGCCCCCTACCAATATCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGTCTGACATCG
CTCACCGCATCGTGGCACCTGGCAAGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGC
AGTCCATTGGCACCAGAGAACACCGAGGAGAACCGGCGCTTCTACCGCCAGCTGCTGCTGACAGCTGACGACCGCG
TGAACCCCTGCATTGGGGGTGTCATCCTCTTCCATGAGACACTCTACCAGAAGGCGGATGATGGGCGTCCCTTCC
CCCAAGTTATCAAATCCAAGGGCGGTGTTGTGGGCATCAAGGTAGACAAGGGCGTGGTCCCCCTGGCAGGGACAA
ATGGCGAGACTACCACCCAAGGGTTGGATGGGCTGCTGAGCGCTGTGCCCAGTACAAGAAGGACGGAGCTGACT
TCGCCAAGTGGCGTTGTGTGCTGAAGATTGGGGAACACACCCCTCAGCCCTCGCCATCATGGAATGCCAATG
TTCTGGCCCGTTATGCCAGTATCTGCCAGCAGAATGGCATTGTGCCCATCGTGGAGCCTGAGATCCTCCCTGATG
GGGACCATGACTTGAAGCGCTGCCAGTATGTGACCGAGAAGGTGCTGGCTGCTGTCTACAAGGCTCTGAGTGACC
ACCACATCTACCTGGAAGGCACCTTGCTGAAGCCCAACATGGTCACCCAGGCCATGCTTGCACTCAGAAGTTT
CTCATGAGGAGATTGCCATGGCGACCGTCACAGCGCTGCGCCGCACAGTGCCCCCGCTGTCACTGGGATCACCT
TCCTGTCTGGAGGCCAGAGTGAGGAGGAGGCGTCCATCAACCTCAATGCCATTAAACAAGTGCCCCCTGCTGAAGC
CTGGGCCCTGACCTTCTCTACGGCCGAGCCCTGCAGGCCTCTGCCCTGAAGGCCTGGGGCGGAAGAAGGAGA
ACCTGAAGGCTGCGCAGGAGGAGTATGTCAAGCGAGCCCTGGCCAACAGCCTTGCTGTCAAGGAAAGTACACTC
CGAGCGGTGAGGCTGGGGCTGCTGCCAGCGAGTCCCTCTTCGTCTCTAACCACGCCTATTAAAGCGGAGGTGTCC
CAGGCTGCCCCCAACAACCTCCAGGCCCTGCCCCCTCCCACTCTTGAAGAGGAGGCCGCTCCTCGGGGCTCCAGG
CTGGCTTGCCCGCGCTCTTCTTCCCTCGTGACAGTGGTGTGTGGTGTCTGTGAATGCTAAGTCCATCAGCC
TTTCCGGCACACTGCCAAATAAACAGCTATTTAAGGGGG

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FIGURE 4521

MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTENRRFYRQLLLTADDRVNPCIG
GVILFHETLYQKADDGRFPFQVIKSKGGVVGIKVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKDGADFAKWRC
VLKIGEHTPSALAIMENANVLARYASICQONGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLE
GTLKPNMVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEASINLNAINKCPLLKPWALTF
SYGRALQASALKANGGKKNLKAQEEYVKRALANSLACQKYTPSGQAGAAASESLFVSNHAY

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FIGURE 4522

GGCACGAGGCGGCTCCCTGCCCCCTTCAGGCCCCGCTGCCTCCCTGCCCAAGTCCTGAGCCACCATGCTGACCC
CGATGGTGGCCGGGGGGGTGGTGTTCCTCCGACTCTTCCTCCTCTCCAAGAACACGCTCCAGCGGCTGCCCCAGC
TACGCTGGGAGGAGGCCGACGCAGTCATTGTCTCAGCCAGGCTGGTGTCTCTGTCCAGGCCATCATGGCCTCCA
CTGCCGGCTACATCGTCTCCACCTCCTGCAAGCACATCATTGATGACCAACACTGGCTGTCTCTGCCTACACGC
AATTTGCTGTGCCCTACTTCATCTACGACATCTACGCCATGTTCTCTGTCACTGGCACAAGCACCAGGTCAAAG
GGCATGGAGGGGACGACGGAGCGGCCAGAGCCCCGGGCAGCACGTGGGCCATAGCGCGTGGCTACCTGCACAAGG
AGTTCTCATGGTGTCTCCACCATGCCGCCATGGTGTCTGGTGTCTTCCACTCTCAGTGGTGTGGCGACAGGGTA
AGGGAGACTTCTTTCTGGGTTCATGTTGATGGCAGAGGTGAGCACGCCCTTCGTCTGCCTTGGCAAGATCCTCA
TCCAGTACAAGCAGCAGCACACACTGCTGCACAAGGTGAACGGGGCCCTGATGCTGCTCAGCTTCCTCTGCTGCC
GGGTGCTGCTCTTTCCCTACCTGTACTGGGCTACGGGCGCCATGCCGGCTGCCCTGCTGGCCGTGCCCTTGG
CCATCCCTGCCCACGTCAACCTGGGCGCTGCGCTGCTCCTGGCCCCCTCAGCTCTACTGGTTCTTCTCATCTGCC
GTGGGGCCTGCCGCTCTTCTGGCCCCGCTCCCGGCCGCCCGGCCCTGCCAGGCCAGGACTGAGGCCGGGGGC
CGGGACCTCCCCCTCCCCACCCCCACCCCCGTGGAGACAGGGCTCTGGGGCTGATGGCTGGGGTTGGGAGCCAG
GGTCTCTTGCCCGACAACCCAGGACTGACGATGACCCCGAAAGGGAAGAGGCCCATCTCTCGGGGACTGAG
GGGTGGAGAGAGGGGACCTCTTCCCCCTACTCTGCCCCCTTCCTGCACACCCTTGGCTGGAGGAGGGGAGGGG
GCACCGCTCCCACCCACTGAGGGCAGGAGGGCTGTGGGGAGGGACACCAACAGGGTTTCAAGGGGACCAGGAG
TCAGAATGTGGGGAGACGCCTCTGCCAAGGCCATCCCAGCCCCATGCTGCCATCCCCAGGGCTCCCCATCACC
CGAGAGGAGAGGACGCCCCAACTAACCCCCGCTGGCCCTCGGGCCTCCCGAGTGGCCGGCTGCAACCACGGCTCC
TCTCCAGGGTAGGCCAGCTTGAGGAATCTTATTTATTTATTTATTTACCCAAATTGAAGTAGTCTGTTGGGTT
GGGGGAAGGAGGTGGCTGCTACCCCCAAGCCTTCCAGTGCTGACAACCCCGGGGGCAGGCGAGGGCGCCAGTC
CCTCACCATCGGCTGCACATCGCGCCCTCGGGCCCTGCCATGTCCTGGTGTCTACTGACCTCTCAAGGCTTCCTC
CAATCTGGGGTCGGGGGACCTGGGAGGTGCTTACAGACCGCTAATAAAAGACGATCTGCGTGAACGCCAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 4523

MASTAGYIVSTSCCKHIIDDQHWLSSAYTQFAVPYFIYDIYAMFLCHWHKHQVKGHGGDDGAARAPGSTWAIARGY
LHKEFLMVLHHAAMVLVCFPLSVVWRQKGDFFLGCMLMAEVSTPFVCLGKILIQYKQQTLLHKVNGALMLLSF
LCCRVLLFPYLYWAYGRHAGLPLAVPLAIPAHVNLGAALLAPQLYWFFLICRGACRLFWPRSRPPPPACQAQD

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FIGURE 4524

CGTTGGCCCTTGGCCGCGGACCGCGTGGGCCGAGAACTTTGCCAGACGAGACTTGTTTTCTCTGGGCAGTTGGAG
GGTCTCGCGGCTCCTACCCCTTTTTTGGAACGGATCATTTTAAAAGTTCTCGTTAGAAACCAATTCGGCGCCGGCA
CCCTTTGGGTGAAACCTAATCAGCCCGCGACGCTGCCTTTCTCACTGGTCACGGGCAACAGCTAGGCTGCTGTTA
TTTCGCAAGGCAGAAGAGAAAAGGCATCCTCGCGAGCAGATGAGGAACCTCGGGGATAAATCCTTTTGTGGCTTC
AAGTGTCTAAGTACATTAGAGTCAGGAACGGCGCTTTCCAGCGTCCGCCATTTTGTGGCGTCACCGCGTCGCTG
CTACGGCTTGGGGTAGCGGGAGGGCAGACTCTGGGCGCCACTCCCGGGCCGGTCATGAACGGGCCGGCGGACGGC
GAAGTGGACTACAAAAAAAATACCGGAATCTGAAGCGGAAGCTCAAGTTCCTCATCTACGAGCACGAGTGCTTC
CAGGAGGAGCTGAGGAAAGCGCAAAGGAAATTACTGAAGGTGTCCCGGGACAAGAGTTTCTCCTAGACCGACTT
CTGCAGTACGAGAACGTGGATGAAGACTCTTCGGACTCAGATGCCACTGCATCATCAGATAACAGCGAGACGGAG
GGGACACCCAAGTTGTCTGACACACCGGCCCTAAGAGGGTTTTCCCTTCAGGCCTCCGGGGTCCCCTCCCATA
CCTGAGCTCGCTGGCCTCCTCCCGCTACCCCCATTCCCTTCTGACTACCTGGCCCTGCAGCTGCCCGAGCCCAG
TCCCCTGAGGCCCAAGCGGGAGAAACGGCCCCGCCCTGCCCCGAAACTCAAGATGGCGGTGGGACCCCCGACTG
CCCTGTGGGAGGGCCGCTGACCTTCCCTGGCCGGGGTTCTGGGGCTGGGGTCGGGACAACCTGACCCCCCTCCC
ACCCCCTAAGATGCCCCCCCCACGATCCTGAGCACGGTCCCTCGGCAGATGTTACGCGATGCAGGTAGCGGGGA
CGATGCCTTGGATGGAGACGATGACCTGGTGATCGACATCCC

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FIGURE 4525

MRNLGDKSFCGFKCLSTLES GTALSSVRHFCGVTASLLRLGVAGGQTLGATPGPVMNGPADGEVDYKKKYRN LKR
KLKFLIYEHECFQEELRKAQRKLLKVS RDKSFLLDRL LQYENVDEDSSDS DATASSDNSETEGTPKLS DTPAPKR

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FIGURE 4526

CCGAGGTTCTCATCTGCTCGCGAGGATGCCTTTTCTCTTCTGCCTTGCAGAAATAACAGCAGCCTAGCTGTTGCC
CGTGACCAGTGAGAAAGGCAGCGTCGCGGGCTGATTAGGTTTACCCAAAGGGTGCCGGCGCCGAATTGGTTTCT
AACGAGAACTTTTAAATGATCCGTTCCAAAAAGGGTAGGAGCCGCGAGACCCTCCAAGTCCCAGAGAAAACA
AGTCTCGTCTGGCAAAGTTCTCGGCCACGCGGTCCGCGGCCAAGGGCCAACGGTCCCTCGCCCCACGTTGCCGC
AGCACTGCGCGTGCAGGAGCGCTGTCAAACGCGCTGACGGAGGCCGAGAAGAAAAAGGCGGGAGCCGTCAAT
CCCGGGTTGAGCAAAATGGCGCGGGAGAAGGAGATGCAGGAGTTACCCGTAGCTTCTTCCGAGGCCGCCGGAC
CTCAGCACGCTTACGCATTCCATCGTGCAGCGGAGGTAAGTACTAGCTACTCGGGCCGAGCCACCTGGAGCCCCGAG
GAGAAGCAGGCACTGAAGCGGTGGTGGAGGAGGAGCTGCTGAAGATGCAGGTGGATGAAGCCGCTTCCAGGGAA
GACAACTGGACCTTACCAAGAAGGGCAAGAGGCCCTCCACCCCTTGTAAGCGACCCGAGAGAAAAAGGTTCCGC
TTCAATTGAGAGTCGGAGTCCGGCTCTGAAGCCTCCAGCCAGACTACTTTGGACCCCAAGCAAGATGGGGTG
GCAGCAGAAGTCAGCCAGCCAAAGAGGAGAATCCAAGGCGAGCCTCAAAGGCAGTTGAGGAGAGCAGTGATGAG
GAACGGCAGAGGGACCTGCCGACAGAGGGGAGAGGAGAGCAGTGAGGAGGAGGAAAAGGGGTACAAGGGGAAG
ACTAGGAAGAACTGTGGTAAAGAAGCAGGCACAGGCCAAGGCCCTCAGTCAGTAGGAAGCAGGCCAGGGAAGAA
AGTGAGGAGAGCGAGGCAGAACCCGTTGAGAGGACAGCAAGAAGGTGGAGGGAAATAAAGGAAGTAAAGCCTG
AAGGAAAGTGAACAGGAGAGTGAAGAGGAGATCCTAGCCAGAGAAGAAAGAGCAGAGAGAGGAGGAAGTGAGGAG
GAAGAGAAAGAGAGGATGAGGAAAAGGGGGATTGGAACCCAGAACAGGAGCAATGGCCGAGAAAGTCAGCT
AGGGAGGAGAGGAGCTGTAAGCAGAAAAGCCAGGCAAGAGGCTCTTGGGAGACTCAGACAGCGAGGAAGAGCAG
AAAGAGGCAGCCAGCAGTGGGATGACAGTGGGAGAGATAGAGAACCCCAAGTGCAGAGGAAGAGTGAGGACAGG
ACCCAGCTTAAGGGTGGGAAGAGGTTGAGTGGAAAGCAGCGAGGACAGGAAGACAGTGGGAAGGGGGAACCCACA
GCTAAAGGCTCTAGAAAGATGGCCAGACTGGGCAGCACCAGTGGTGAGGAAAGTGACTTGGAGAGGGAGGTAAGT
GACAGCGAGGCAGGGGGAGGCCCCAGGGGGAGAGGAAGAACCCTCTTCCAAGAAGAGCTCCAGGAAAGGCAGG
ACACGAAGCTCCTCTTCTCTCAGATGGAAGTCCAGAGGCCAAAGGAGGGAAGGCTGGCTCAGGTCGCCGTGGA
GAGGACCACCCGGCTGTGATGAGGCTGAAGCGCTACATTCGGGCTGTGGTGCCATCGAACTACAAGAAGCTG
TTGGGCTCCTGTTGCTCACACAAGGAGCGCCTGAGTATCCTCCGGGCAGAACTGGAAGCGCTAGGCATGAAGGGT
ACCCCTTCCCTAGGGAAGTGTGCGGCCCTGAAGGAGCAGAGGGAGGAGGCAGCTGAGGTGGCCTCCTTGATGTT
GCGAACATCATCAGTGGCTCGGGCCGGCCACGCAGACGTACAGCCTGGAACCCCTTAGGAGAAGCAGCACCCCCA
GGGGAGCTGTACCGACGGACCCTGGACTCAGATGAAGAGCGGCCCGTCCCGCACCCCAAGTGGTACATATG
CGTGGCATCATCAGCAGTGATGGCGAGAGTAAGTGAAGTCTGCCACCCCAAGGAGGGACCCCTTGATACATGTACA
AAGCATACATAGCACCCCTTGCCCTGTGTCTGTGGAACAGAAGCAGCTTCTTCAGAGAAGACTGCAGCTCCCAA
GGACACAAGCTGTTGGGATGCTACTTCTCAGCTTACGCTGTCCCTTTAAGGTGTTATTTTTTAAGACTCAATA
AAGGAGTGTTTTAAATCACCTC

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FIGURE 4527

AGCAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAGTTATAGCTCACTGCAGCCTTGAACCTCTGG
GCTCAAGTGATCCTTCCACCTCAGCCTCCCTAGTAGCTGGGACCACAGGTGGTGACTTCCAAGAGTGACTCCGTC
GGAGGAAAATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTG
CCCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAGGAGCAGCCTCCACT
ACAAACCCACACCAGACCTGCGCATCTCCATCGAGAATCCGAAGAGGCCCTCACAGTCCATGCCCTTTCCCTG
CAGCCCACCCTGCTTCCCAGTCCTTCCCTGACCCCAGGGGCTCTACCACTTCTGCCTCTACTGGAACCGACATG
CTGGGAGATTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCC
AGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTACCTCTGGTGGAGCCCTCAGA
ACATCAGCCTGCCCAGTGCCGCCAGCTTACCTTCTCCTTCCACAGTCTCTCCACACGGCCGCTACAATGCCT
CGGTGGACATGTGCGAGCTCAAAGGGACCTCCAGCTGCTCAGCCAGTTCCTGAAGCATCCCCAGAAGGCCTCAA
GGAGGCCCTCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTATGG
GGGACATGGTGTCTTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCCACAGCCGGCCTCCAGG
ACCTGCACATCCACTCCCGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACAC
TCTTCCAGAGGACGAAAGCCGGAGCGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCC
TGTTCCAGGACAAGAATTCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAG
CCAACCTCAGGAGCCCGTGGTGCTCACTTCCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGT
TCTGGGTGAAGACCCACATGTGACAGCCGGGGCATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAA
CCCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCG
TGCACAAGCACTACCTGAGCCTCCTCTCCTACGTGGGCTGTGTCGTCTCTGCCCTGGCCTGCCTTGTACCATTTG
CCGCCTACCTCTGCTCCAGGGTGCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGA
ACCTGCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGG
CTGGCTGCCGAGCCAGTGCCATCTTCTGCACTTCTCCTGCTCACCTGCCTTCTCTGGATGGCCCTCGAGGGGT
ACAACCTCTACCGACTCGTGGTGGAGGTCTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGCGCCATGG
GCTGGGGCTTCCCCATCTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACATATGGCCCCATCATCTTGG
CTGTGCATAGGACTCCAGAGGGCGTCATCTACCTTCCATGTGCTGGATCCGGGACTCCCTGGTCAGCTACATCA
CCAACCTGGGCCTCTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCTAGCCACCATGGTGGTGCAGATCCTGC
GGCTGCCGCCCCACACCCAAAAGTGGTCACATGTGCTGACACTGCTGGGCCTCAGCCTGGTCTTGGCCTGCCCT
GGGCCTTGATCTTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTCTCTCTACCTTTTTCAGCATCATCACCT
CCTTCCAAGGCCTTCTCATCTTCTGTTACTGGTCCATGCGGCTGCAGGCCCGGGGTGGCCCCCTCCCCTCTGA
AGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATCTAGGCCTCCAGCC
CACCTGCCCATGTGATGAAGCAGAGATTGGCCCTCGTCGCACACTGCCTGTGGCCCCCGAGCCCCGCCAGCCCC
AGGCCAGTCAGCCGAGACTTTGGAAAGCCCAACGACCATGGAGAGATGGGCCGTTGCCATGGTGGACGGACTCC
CGGGCTGGGCTTTTGAATTGGCCTTGGGGACTACTCGGCTCTCACTCAGTCCCACGGGACTCAGAAGTGCGCCG
CCATGCTGCCTAGGGTACTGTCCCCACATCTGTCCCAACCCAGCTGGAGGCCTGGTCTCTCTTACAACCCCTGG
GCCCAGCCCTCATTGCTGGGGGCCAGGCCTTGGATCTTGAGGGTCTGGCACATCCCTTAATCCTGTGCCCTGCCT
GGGACAGAAAATGTGGCTCCAGTTGCTCTGTCTCTCGTGGTCACCTGAGGGCACTCTGCATCCTCTGTCATTTTA
ACCTCAGGTGGCACCCAGGGCGAATGGGGCCAGGGCAGACCTTCAGGGCCAGAGCCCTGGCGGAGGAGAGGCC
TTTGCCAGGAGCACAGCAGCAGCTCGCCTACCTCTGAGCCC

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FIGURE 4528

AGGGCTTCCTGAAGAATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCAGGAAGAGGACCTTCGGCA
TGGCTGAGGAGTACCATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGC
TGGCATCAGGAGAAGACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCTG
GTCGAAGCTCTCTGGATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAATG
GACACCTGCAGCCTAACCTGGTGGACCTTTGTGCTTCCGTCGCAGAGCTCGATGATAAGAGCATTTCGACATGT
GGACCATGGTAAAACAAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCGCAGCAGCGTGG
AAGTGCATGGAGTTTGTGAGGCAGGCCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCCTTGTGACTG
TCTTTGAAAATTTGCATCAGGCCAGCTGGGCGGGGTGCTGGGACTTACCAATTGGTTCGAAGTTTCCTGAACA
TTAACTGCCAGCTCCCTTGCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACT
ACTGCATGCGCTGTGGAGACCTGCTTGCCGCTTCACAGGTAGTTAATCGAGCCAGCACCAGCTGGGAGAGTTTA
AAACCTGGTTCCAGGAGTACATGAACAGCAAGGACAGAAGATTGTCCCAGCTACGGAAAACAGCTCCGGCTGC
ATTACCGTAGGGCCCTCAGGAACAATACAGATCCCTACAAGCGGGCCGTGTACTGTATCATTGGCAGATGTGACG
TCACCGACAACCAGAGTGAAGTGGCGGACAAAAGTGGAGTTACCTGTGGTGAAGTTGAACCAAGTGTGTTTTG
ACGACGATGGCACCAGCTCCCCACAAGACAGGCTCACTCTCTCAGATTCCAGAAGCAGTTGTTGGAAGACTATG
GCGAGTCCCACCTTTACGGTGAACCAGCAACCCCTTCCTCTACTTCCAAGTCTGTCTCTGACAGCGCAGTTTGAAG
CAGCAGTTGCCCTTTCTTTCCGCTGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGTGTTTGAGC
TGAAGCTGCTTTTAAAGTCTCTGGACAGAGTGTCTCAGCTCCTCAGCCACGAGCCTGGTGACCCCTCTTGCTTGC
GGCGGCTGAACCTTCGTGCGGCTCCTCATGCTGTACACCCGGAAGTTTGTAGTCCACGGACCCAAGGGAGGCCCTCC
AGTACTTCTATTTCTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTG
TGATTGAAAGCCGAGAGTTCGATATGATTCTTGGGAAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAG
ATAAGTTTACTAGTGACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAG
AGGCAGCAAAGCTGTATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAAACTGCTGAGCCCTG
TCGTCCCCCAGATCAGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGT
ATAGGGCTCAAGGAATAAGCGCAAATAAATTTGTGGACTCCACGTCTATCTTCTTTTGGACTTGATCACCTTTT
TTGACGAGTATCATAGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCTGAATC
AGGAAAGTGTGGAAGAGAGAGTGGCTGCCTTCAGAAATTTAGTGATGAAATCAGGCACAACCTCTCAGAAGTGC
TTCTTGCCACCATGAACATCTTGTTCACACAGTTTAAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGC
CCCAGCGAGTCATCGAGGACCGGACTCTCAACTCCGAAGTCAAGCCCGCACTCTGATTACCTTTGCTGGAATGA
TACCATAACCGAAGCTCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGGTCTCATGAATTAAGTGCCATGCT
TTGTGGGAGTCTGGGTCGGCACACTGTGAGTACATCAGGCACATGGGCCACTAGGCTGGGGTTTCTGGTTTGT
TTCTGTTGTGTTTGTGTTTGGTTTCTGTATTATGATTTTTGTCAACGCCAATAAATTTCTTTGATTTGT

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FIGURE 4529

MAEYHRESMLVEWEQVKQRILHTLLASGEDALDFTQESEPSYISDVGPPGRSSLDNIEMAYARQIYIYNEKIVN
GHLQPNLVDLCASVAELDDKSISDMWTMVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVT
VFGNLHQAQLGGVPGTYQLVRSFLNIKLPAFLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEF
KTWFQEYMNSKDRRLSPATENKLRLHYRRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCF
DDDGTSPPQDRLTSLQFQQLLEDYGESHTVNQQPFLYFQVLFLTAQFEAAVAFLFRMERLRCHAVHVALVLF
LKLLKSSGQSAQLLSHEPGDPPCLRRLNFVRLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSEL
VIESREFDMILGKLENDGSRKPGVIDKFTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLSP
VVPQISAPQSNKERLKNMALSIAERYAQGISANKFVDSTFYLLDLITFFDEYHSGHIDRAFDIIERLKLPLN
QESVEERVAAFRNFSDIIRHNLSEVLLATMNILFTQFKRLKGTSPSSSRPQRVIEDRDSQLRSQARTLITFAGM
IPYRTSGDTNARLVQMEVLMN

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FIGURE 4530

GACGTGAACGGTCGTTGCAGAGATTGCGGGCGGCTGAGACGCCGCTGCCTGGCACCTAGGAGCGCAGCGGAGCC
CCGACACCGCCGCCGCCGCCATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCCAACCC
AGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCACCTGAGCCGCG
TCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTTGGATCACCATGTC
TCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAATGTGAAGAGTCTTCAAAAA
TGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGG
ATTCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAAAAACATCTCAA
GGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTC
AGCTTTCCTGGTTCCAGCAGATATATGCACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGG
CTTTTGTTCACCACCAAGTGCACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCCTATTACAACCAGT
TTCCAGCTGAAAACCAGCCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATT
TGCGGATGAATGCACAAGGTGGCCCTATTGTGAAGAAGATGATGAAATAAATCGAGATTGGTTGGATTGGACCT
ATTCAGCAGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCTCATGGTCA
TGGGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCC
CAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAA
CTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCCTCCTTTATGAGCA
CAGCATGGCTTGCTTCAAGACTTTCTTTGCCTCTCTTCTCCAGAAGGCCCCCCAGCCATCGCAAACTGTGATGGT
GTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTAGATTGCCTCTCCTG
GACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGAGCAAGCAAAAGCAGAAACG
TGAAGCCGTGATACAAATTGGTGAACAAAAATGCCCAAGGCTTCTCATGTCTTTATTCTGAAGAGCTTTAATAT
ATACTCTATGTAGTTTTAATAAGCACTGTACGTAGAAGGCCTTAGGTGTTGCATGTCTATGCTTGAGGAACTTTTC
CAAATGTGTGTGCTGCATGTGTGTTTGTACATAGAAGTCATAGATGCAGAACTGGTTCTGCTGGTACGATTGTA
TTCTGTTGGAATGTTTAAATTACACTAAGTGTAATACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGC
AGGACTTTTCTAGGAAAGACTTATGTATAATTGCTTTTTTAAATGCAGTGCTTTACTTTAAACTAAGGGGAACCTT
TGCGGAGGTGAAAACCTTTGCTGGGTTTTCTGTTCAATAAAGTTTTACTATGAATGACCCTGAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4531

MESETEPEPVTL LVKSPNQ RHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQRLIYSGKLLLDHQCLRDLLPK
QEKRHVLHLVCNVKSPSKMPEINAKVAESTE EPAGSNRGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQ
AFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQP
ANQNAAPQVVVNPGANQNLRMNAQG GPIVEEDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVM
YLHHVGWFFPRPRPVQNF PNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMSTAWLVFK
TFFASLLPEGPPAIAN

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FIGURE 4532

CCCGAGCGGCTGGGAGCGCACGCGAGCGGGCCGTGGCCGCGCGGGCAGCGCCCTGAGCCTGTCCCGCGCCCGCGG
GCCCCGCCGAGCAGGAGCAGCTCCCGGGGATGCCCGGGCGGCTCGGAGCGCGGGCAGCGGCAGCCGTGCGGTGAG
GGCGGTGGCGCCCGCGGGACCTGCGACTGCCAGGAACCTCTGCCACCGCCACCGGCTCCCATGGCCACATACCC
AGTGGGGGTGCCCCAGCAGCGGGGGCAGCCCCATGGGCCCCCAGTATTGCGTGTGCAAGGTGGAGCTGTCACTG
AGTGGCCAGAACCTACTGGACCGGGATGTTACCTCCAAGTCCGACCCCTTCTGTGTCTCTTTACAGAGAACAAT
GGCAGATGGATCGAGTACGACAGGACAGAAACCGGATCAACAACCTCAACCCCGCCTTCTCCAAGAAGTTCGTG
CTTGACTACCACTTCGAGGAGGTACAGAAGCTCAAGTTCGCGCTCTTTGACCAGGACAAGTCCAGTATGCGGCTG
GACGAGCATGACTTCCTGGGCCAGTTCTCCTGCAGCCTGGGCACGATCGTCTCCAGCAAGAAGATCACTAGGCCT
CTGTGCTGCTGAATGACAAGCCTGCGGGGAAGGGCTTGATTACGATCGCTGCCAGGAGCTGTCCGACAACCGC
GTCATCACACTAAGCCTGGCGGGCAGGAGGCTGGACAAGAAGGACCTCTTTGGGAAGTCAGACCCCTTTCTGGAG
TTTTATAAGCCAGGAGACGATGGCAAGTGGATGCTGGTCCACAGGACTGAGGTGATCAAGTACACACTGGACCCT
GTGTGGAAGCCATTACAGTGCCCTTGGTGTCCCTGTGTGATGGGGACATGGAGAAGCCCATCCAGGTATGTGTC
TACGACTATGACAATGACGGGGGCCATGACTTCATCGGCGAGTTCAGACCTCAGTGTACAGATGTGTGAGGCT
CGAGACAGCGTCCCGCTGGAGTTCGAGTGCATCAACCCCAAGAAGCAGAGGAAGAAGAAGAACTATAAAAACTCG
GGCATCATCATCCTGCGATCCTGCAAGATAAACCGAGACTACTCCTTCCTTGACTACATCCTGGGAGGCTGCCAG
CTCATGTTCACCGTTGGAATAGACTTTACAGCCTCCAACGGGAATCCCTCGACCCCTTCTCTTTGCACTATATC
AACCCATATGGGCACCAACGAATATCTGTGCGCCATCTGGGCTGTTGGGCAGATCATTAGGACTACGACAGTGAT
AAGATGTTTCCAGCTCTGGGATTGCGGGGCCAGTTACCCCCAGACTGGAAGGTCTCCCATGAGTTTGCCATCAAC
TTCAACCCACCAACCCCTTCTGCTCAGGTGTGGATGGTATTGCCAGGCGTACTCAGCTTGCTGCCCCACATC
CGCTTCTACGGTCTCTACCAATTTCTCCCCATCGTCAACCACGTGGCCCGGTTTGGGGCCAGGCCACACAACAG
CGGACGGCCACGCAGTACTTCATCCTCCTCATCATCACGGACGGGGTCATCAGTGACATGGAGGAGACACGGCAT
GCCGTGGTGCAGGCTTCCAAGCTGCCCATGTCCATCATCATCGTGGGCGTGGGCAATGCGGACTTCGCTGCCATG
GAGTTCCTGGATGGGGACAGCCGCATGCTGCGCTCCACACGGGGGAGGAGGCAGCCCGCGATATTGTGCAAGTTC
GTTCCCTTTCGAGAGTTCGCAACGCAGCAAAAGAGACCTTGCCCAAAGCTGTGCTGGCGGAGCTGCCCCAACAA
GTTGTGAGTATTTCAAGCATAAAAACCTGCCCCCACCAACTCGGAGCCCGCCTGAGCTCCAGTGCCCAAGCAGC
AGCATGTCAGCTGAGCCTCCTGCCCTCCCCCAGGAACATGCACGCTCACTCTGCTTCCTTGTGGGTGGCCTTTTT
TTACCGATCCCTTTTTTATTTTTTACAACCGGACCTCCACCCCAACTTCTCCAGCCCAGCTGGGCTTCCTTT
GTTGGAGTCAACTGTTGATGCTTCCAGGCCAACTGGCTTCTCTCCTCTCTCCACCTTTGCCATTCTTAAG
TATTGAATGTACTTTGTATAATTTTAGTGAATTGTTATTGAGAATAAAATTTTACAATCAT

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FIGURE 4533

MRLDEHDFLGQFSCSLGTIVSSKKITRLLLLNDKPAGKGLITIAAQELSDNRVITLSLAGRRLDKKDLFGKSDP
FLEFYKPGDDGKMWLVHRTEVIKYTLDPVWKPFVPLVSLCDGDMKPIQVMCYDYDNDGGHDFIGEFQTSVSQM
CEARDSVPLEFECINPKKQKKNYKNSGIIILRSCKINRDYSFLDYILGGCQLMFTVGIDFTASNGNPLDPSSL
HYINPMGTNEYLSAIWAVGQIIQDYDSKMFPAFGAQLPPDWKVSHEFAINFNPTNPFCSGVDGIAQAYSACL
PHIRFYGPTNFSPIVNHVARFAAQATQORTATQYFILLIITDGVISDMEETRHAVVQASKLPMSIIIVGVGNADF
AAMEFLDGDSRMLRSHTGEEAARDIVQFVPFREFRNAKETLAKAVLAELPQQVVQYFKHKNLPPTNSEPA

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FIGURE 4534

CGGTGGCGCCGCGCAGTCACCGCGGAGCAGACGCGGAGGCTGGTGGCCCCCTGGGCGAGATGCCGTACGCCAACCA
GCCTACCGTGCGGATCACGGAGCTCACTGACGAGAATGTCAAGTTCATCATCGAGAACCCGACCTGGCGGTGGC
CAATTCGATTTCGGAGGGTCTTCATCGCTGAGGTTCCCATAGCCATTGACTGGGTTCAGATTGATGCCAATTC
CTCAGTTCTTCATGATGAATTCATTGCTCACAGGCTTGGATTAATTCCTCATTAGTGATGACATTGTGGACAA
GCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCGCCCCGAGTGCTCGGTGGAGTTCACCTCGATGTGCG
GTGCAATGAAGACCAGACGCGACATGTCACGTCTCGAGACCTCATCTCCAACAGCCCCCGGGTCATTCCGGTGAC
ATCCCGGAACCGAGATAATGACCCCAATGACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGG
CCAGGAGCTGAGACTTCGAGCCTATGCCAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGAACCTACTGCAGG
GGTGGCTTTTGAATACGATCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCCGAGGAATGGCCAAAGAG
TGAGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTA
CAATGTGGAGTCTCTGTGGCTCTCTGCGTCTGAAACCATTGTCTGTGAGCCCTCTCAGGATTGAAGAAGAACT
GAGTGATTTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAAATTAAGTGCAGCTTGCTG
CTTCAGCAAAAACGGAGATTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAGACTCTTCTCGTTTCTGAGAA
TCTAGTCTACTGTTGGTTGAGCTTCTTGGCAGGACATCAGTACCAACTAGAAGTGGGTCATAGATAGATTACCAG
GGATGCAGTGGTGTTTAGGCAGGATAGGTCTTTACTGGCCCTGACTGCTGTTAATAATTGGCAGCAGTGCTCCCC
AGATCCCAGAAGGTCCCTGCTGGAGTGTTCAGTGACCTGTAGGGAACCAACTAGACTTCTCTCCTGGTTAGT
CCAGCTCTTTACTCTAAACCTTTCTGTCCAAAATGAGTCATTTTCAGTTGTACCTTAGATGTCTGTTGAGG
ATCAAGTGCCATAGCCTTTATTCAGGGGGCTATAAACCTTCCAGTTCTTGCCCCAGGGCTGGCCTGCTAGCGC
TTCAAATCCCAGGTGTCCCTAATTTGAGAAGTAACCTTTTGAATAGCATTAGACCTGGCTGTCCCTCCCCA
CCAAATAAACATGATATTTTATTCTCTGTCCAGCAGTCATGAACCCCTTCACCTCCAATGACCTGATCATTAGT
TTGGTGGGGGTGGGGGTGGGGGTGGGGGTGGAAGCAGCCGAGGAGCAAGGGCCCCCTCCACATACACAGGAGGA
GTATTTTATTCTCCTTAATGAAGGCTCTGGCCCTAACCCCTCAGCACTGTCTCCAGATAGGAACATGCACAAAG
CAGTTAATTAGGCAGCCTGGAGAAAACAGAGATCCAGTACAGAAAGGAAAGGATATTTATTGATTACAGAAGT
TGTCTTTTTAAAGTGTTTATTTTGGCAATAAAGAGCACACAT

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FIGURE 4535

CCCGGCGCGCGCGCGCCCTGCCGCCCCGCCAGCCGCGCCGTGACGCGGGCATGAGCCTGCTCCGCGGCGCGCG
TGAGCAGGCGCTCCTGCCCCGGGCTCGGCGCCAGCAGGCGCGGGGCGAAGGAGCTGCTAGAACAATGCTGAGG
CGGGTGAGGTGAGGAGCAGCCCCTCGCGGCAGCCCCGACAGAGTGTCTGGAACAGGTGATTGGAGGAGCCGGAGA
CCCAGGCACCTGGGCATCCTTCCCCTCGCTCTGCCAGGCCCCGCGCCCCCTAAAAGGTGGGAAAACCATGGCGAC
CAATTTCAGTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGATCTACCGGAGGTGCTG
GCTGGTGTTCGGAAATCCTCCAGCAAGGGGCCCCAGCGGCTGGAGAAGTATCCAGATGAGAAGTCGGTGTGCCT
CCGGGGCTGCCCCAAGGTGACTGAGATCAGCAACGTCAAGTGTGTTACGCGGCTCCCCAAGGAGACCAAGCGGCA
GGCGGTGGCCATCATATTCACTGATGACTCGGCACGTACCTTACCTGCGACTCAGAGCTAGAGGCAGAGGAGTG
GTACAAGACACTATCTGTGGAGTGTCTGGGGTCCCGCTCAACGACATCAGTCTGGGAGAACCTGACCTCCTGGC
CCCAGGGGTGCAGTGTGAACAGACAGATCGCTTCAATGTCTTCTGCTGCCCTGCCCCAACCTGGACGTGTATGG
CGAGTGCAAGCTGCAGATCACCACGAGAACATCTACCTCTGGGACATCCACAACCCCCGTGTGAAGCTCGTCTC
GTGGCCCCCTCTGCTCACTGCGCGCTATGGCCGGGATGCCACACGCTTACCTTCGAGGCTGGCCGGATGTGTGA
TGCTGGGGAAGGACTCTATACCTTCCAGACACAAGAGGGGGAGCAGATTACCAGCGCGTCCACAGTGCCACCCT
GGCCATCGCAGAGCAGCACAAGCGGGTCTGCTGGAAATGGAGAAGAACGTGAGGCTGCTGAACAAGGGCAGGGA
ACATTACTCGTATCCCTGCACACCACGACCATGCTGCCGCGCAGTGCCTACTGGCACCACATCACTGGTTCCTCA
GAACATCGCCGAAGCTCCAGCTATGCTGGTGAGGGGTATGGGGCAGCCAGGCCAGCTCGGAAACAGACCTCCT
CAACAGATTATCTCTGCTAAAGCCAAAGCCAGCCAGGGGGACAGCAGTGAGGCCAAGACCCCATCCAGTAGACC
ACAGTGTGCGGAGCACCGATGACTGCTGGGGGCTGCCTGCTGCGGGGCTGGCTGCAGTGTACCGTGGACAGCCT
CAGGGGGCTGTGCGCCAAGAGCCTGGAGAAAGGGAGCAAGCTGCCCCCTCCTTGCCCCAAGGATGAGGCTGGAC
TGAGGCAAGGGGCTGGCCACACCACCTGAGCATGTGTGAGGGGTTGGAGTACCGTGGGACTATATACTGTTAAT
GATTTTAATATATATATGGCTTATGACATACTCTGTATCAATGAGATCCCCCTCACCTCACCCATCCTTCCCCACC
AATACACACAAATTTTTTAATCCCATGACCAGGCCACGGTCAAGGCTGTTTTTGAGTATGAGTGCAGTCGTGTCC
ATCCTCCATGGCACAGCCCTCCTGCTGCCAGGACCTGCTGAACCTACCAGGGCCACAGGAGGGGGATAATCAGAG
CTTGAGGCTGGCACTCTGACTGCTGGCTTTTCCCAAACAGCCCAAGGGCCGAACAGCAGGTGGCTTCTCAGTTC
CTCTGGGCCTGGAGTGACACAGGAAGGATCTGCACTTCCCTCTGTGCTGCTTGCCAGCCTTGCAATTGGAGTTTTA
AGCAGAGGTGACATCTGGTTGACGCTCAGGTGAAAATCTGGTTTTTAAATGTAACCTTCTGCACAGGCTCCTTCC
TGCTTTGTAGGCTGGGAAGATGCCCCTGGGGTAGGGGTGCTGATTACCTCAGCCATGTGGAGGAAGGCTGGAGCT
TGTTCTGCCCCAGGAATAGGCCAGGAGGGAAGGCCGACAGGACTGCCGTGGGGAGCACCCCTGCTGCCCCC
TCTCACTGACCAGGGGTGGACAATGCCCAAGCAGAGGGAGCCCCCTTGCCCTGTTTGGCCACCCCTCTGGCCAGCC
AAAAGCACTCTGAAACCAAGACCTTCCCATTCCTCCTCCCCACATGGTGTGAGGCTCCCTGCTGCAATGCAATT
AAAGCAATTGATTTTTCTAGTGTGGTATTTGTTGACTACCATGCAGAAGGGCTATCTTTCTATTACGTCAAAT
TTTGGTGTGTGGGGTTTTTTGTTGTTTTTTGGGTTTTGTTTTTAAATACTTTAGGGTCTGATTTGTGGGAACA
GACCTTCTTGTAATAAACCCTATTTGAGTTGTGGCAGGAGGATGATAAAGCACGCGGCCCCCTCCCAAAGGAGCC
CTTGAGCTAGGGAGGTGGTGCAGTCAGCCTCGCTCTCAACGTGACCCGGGGAATGACCACCCAGAGGGATGAGCT
AGCCTGTAGAGGGGAACCTGGGGTCCAAAGGTCTTTGGGGAGGGAGGCAGAGCTGGCTGGCTCAGCTAAGTGGCAC
GATGACGCATGAAGGAGATTATGTTGTGCTCTTTATTGCCAAAAATAAACACTTTTAAAAAGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4536

MATNFSDIVKQGYVKMSRKLGIYRRCWLVFRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTRLPKET
KRQAVAIIFTDDSAITFTCDSELEAEWYKTLSECLGSRLNDISLGEPDLLAPGVQCEQTDRENVFLLPCPNLD
VYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYTFQTQEGEQIYQRVHS
ATLAIAEQHKRVLLEMEKNVRLLNKGTEHYSYPCTPTTMLPR SAYWHHITGSQNI AEASSYAGEGYGAAQASSET
DLLNRFILLKPKPSQGDSSSEAKTPSQ

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FIGURE 4537

ATTTGTGGGTGGGGCTTCAGGTGCCAGCCAGCTGAAGGATGGCCACCCCTGTGGTCACCAAGACAGCCTGGAAG
TTGCAAGAGATCGTCGCGCATGCCAGCAACGTGTCTCACTGGTGCTGGGCAAAGCCTCCGGGCGGCTGCTGGCT
ACAGGCGGGGATGACTGCCCGCTAACCTGTGGTCCATCAACAAGCCCACTGCATCATGAGCCTGACGGGCCAC
ACATCCCCAGTGGAGAGCGTCCGCTCAACACCCCCGAGGAGCTCATCGTGGCCGGCTCTCAGTCGGGCTCCATC
CGTGTCTGGGACCTGGAAGCTGCCAAAATTCTTCGCACACTCATGGGACACAAAGCCAACATCTGCAGCCTGGAT
TTCCACCCGTACGGCGAGTTTGTAGCCTCTGGTTCCAGGACACAAACATCAAGCTCTGGGACATCAGGAGGAAA
GGCTGTGTCTTCCGATACAGGGGGCACAGCCAGGCCGTGCGGTGTCTCCGGTTCAGCCCCGATGGGAAGTGGTTG
GCGTCGGCCGAGATGACCACACCGTGAAGCTCTGGGATCTCACTGCCGGCAAGATGATGTCTGAGTTCCCTGGT
CACACGGGGCCTGTCAACGTGGTCGAGTTTACCCCCAAGAGTACCTCCTGGCCTCCGGCAGCTCTGACAGGACA
ATCCGCTTCTGGGACCTGGAGAAGTTCCAGGTGGTGAGCTGCATCGAAGGGGAGCCTGGGCCCGTCAGGAGCGTC
CTCTTCAACCCAGACGGCTGCTGCCTGTACAGCGGCTGCCAGGACTCACTGCGTGTCTACGGCTGGGAACCTGAG
CGGTGCTTTGATGTGGTCTCTCGTCAACTGGGGCAAGGTGGCCGACCTGGCCATCTGCAATGACCAGTTGATAGGT
GTGGCCTTCTCCAGAGCAACGTCTCCTCCTACGTGGTGGATCTGACGCGTGTCAACAGGACTGGCACGGTGGCC
CGGGACCTGTGCAGGACCACCGCCCCCTGGCACAGCCACTGCCCAACCCAGCGCCCCCTCCGGCGCATCTAT
GAGCGGGCCAGCACAACTGCAGCAAGCCTCAGAGGGTGAAGCAGAACTCAGAGAGCGAGCGCCGAGCCCCAGC
AGCGAGGATGACCGGACGAGCGCGAGTCCCGCGCGGAGATCCAGAACGCCGAGGACTACAACGAGATCTTCCAG
CCCAAGAACAGCATCAGTCGGACGCCACCCCGGAGAAGTGAGCCCTTCCCTGCACCCCCAGAGGACGACGCAGCC
ACAGCAAAGGAGGCAGCAAAGCCCAGCCTGCCATGGATGTGCAGTTCCTCGGTGCCAAATCTGGAGGTCTTGCCC
CGGCCCCCAGTGGTTGCTTCCACACCTGCACCCAAGGCTGAGCCTGCCATCATCCCTGCCACCCGGAACGAGCCC
ATCGGGCTGAAGGCTCCGACTTCTTGCCCCGCGTGAAGATCCCCCAGCAGGCCGAGCTGGTGGACGAGGATGCC
ATGTACAGATCCGCAAAGGCCACGACACCATGTGTGTGGTGTCTACCAGCCGCCACAAGAACTGGACACTGTG
CGGGCTGTGTGGACCATGGGCGACATCAAGACGTGCGTGGACTCCGCTGTGGCCATCAACGACCTGTGCGTGGTG
GTGGACCTCCTGAACATCGTCAACCAGAAAGCCTCCCTGTGGAAGCTGGACCTGTGCACCACCGTCTTGCCACAG
ATTGAGAAGCTTCTGCAGAGCAAGTATGAGAGCTACGTCCAGACGGGCTGCACCTCCCTGAAGCTGATCCTGCAG
CGGTTTCTGCCCCCTCATCACAGACATGCTGGCGGGCCCCACCTCTGTGGGTGTGGATATCAGCAGGGAGGAGAGG
CTGCATAAGTGCCGGCTCTGCTACAAGCAGCTTAAGAGCATCAGCGGCCCTGGTCAAGAGCAAGTCAGGCCTGAGC
GGCCGCCATGGCAGTACCTTCCGCGAGCTGCACCTGTCTATGGCCAGTCTGGACTGAGGAAAGCAGTGGGCAGGG
GCGCTCGGCAGCCCCACAGGGCCTGGCCTCAGCCCCCACTCTGTTCCTTGTGCACCCACTGGCCCATGAGCCTCT
GCCTGGCCCCCTGCTGCTGTCTGTGGCCGTCTGGAGGAGGTGATGCTGGTCCCTGGCCACCTCTACAGCCCTGA
ACTCTTGAGACAACCTCTCTCCAGCAATAGCTGCCAGCTTTGCCCAACTGTGCTTCTTGGGGCAGCGAACTGAG
CCCTGGGGCTGCTGCTGTAATTTATAAGGCAAATTTATTAAATTTGTAACCTATT

[illegible]

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FIGURE 4539

CCGCTTCCCCGTCTTGACACCCCTAACTCCTGAGGCTCCTCCGAATCACGCGAGTGGAAAGCGGAGAAGCTCAAG
TGGCCGCCATGTCAGAGGCTTATTCCGAGTGGAGTCGGGTGCGCTGGGGCCTGAGGAGAACTTTCTTTCTTTGG
ACGACATCCTGATGTCCACGAGAAGCTGCCGGTGCACGAGACCGCCATGCCTCGCCTTGGCGCTTTCTTCC
TGGAGCGGAGCGCAGGCGCCGAGACTGACAACGCGGTCCACAGGGTTCCAAGCTTGAACCTTGTGGCTGG
CAAAAGGACTTTTGTACAACAAGCGACGGATCCTTTCTGTGGAACCCCCAAGATCTACCAAGAGGGTTGGAGGA
CTGTGTTTCACTGCAGATCCCAATGTGGTGGACCTCCACAAAATGGGGCCCCATTTCTACGGGTTTGGCTCCCAGC
TCCTGCATTTTGTACAGTCCCGAGAATGCAGACATTTCCAGTCTCTGTGCAGACTTTTATCGGACGTTTTCGCC
GCATCATGGACTCCTCACAGAATGCTTACAACGAAGACACTTCAGCCCTGGTAGCCAGGCTAGACGAGATGGAGA
GGGGCTTATTTCAAACAGGGCAGAAAGGACTGAATGACTTTCAGTGTGGGAGAAGGGGCAGGCTTCTCAGATCA
CAGCTTCCAACCTCGTTTCAGAATTACAAGAAGAGAAAAATCACTGATATGGAAGACTGAAAGCCGGAAGAACACA
GAATGGCTCCTCACAGACGTATCCCTCCGTGTGTCTTGATAGGAGCTGGTTGACCTTGTACAGAACCAGAAATCC
TGTCCTATTTTCACTGGCTTATTTCTGTGGCCATAGAGAAATTATAGGGAAGTGGACATGCTGGAGGATGTGGGTGT
CCCTGGCTCTGTGAGTCTTCCAGGACCGTCCCACCCTGTGACCCACAGCCCAGGCCCTTTAACCCAAGAACCCA
TGGCCAAGGAGAAATCAAAGTCCTTCTAAATAAGAATCACTGCCATATAATATATCACAGTAGAGTTGCAACTG
AGATTCCTTGTGTCTGGGAGTTTGGACAGCTTCAGATGTACAGTTTCACTAGCCACAAAGCACAGGTACAAACTG
GGTCATCGCTGTTCACAAAATGCTCTCTTGATCTTATTTGCCTCATCTTCTCATGGTTGTACAGAGGATAGCA
CCCCACCATGCCAGCCTGACTTGGAGATATCTCCTGCTGCCTGCCTGCAGGGAGTTACCCAGTTTCCAAAAACA
GTCGCCAGATAAAGGAGGAAAAGGGAAAGGCAGACGAATGGCATGGCTTTTACTAAAGAAAAGATGTTGGCCTC
ATACTCTATACTCAGGGCTTAATGAAGTGAATCTGCATAACTCAGCAGTCAACCCAGAAGGGAAATGGTTAAAC
TGAGCTTGTTATTGCCTCGGAGAGCCTAAGAGCACCCGCACACTTAATTCTACTCCCTGTCTAGAAAAGCTGTCA
GGGAGTCGTTTGAATTGCAATGTAGTTATTAAGGGCTGTTAACCAGCCTGCATTACATCTGGAAGTCAGGACTT
GGGTGCTGACTATGAAGGGCCCTGTTTTCAAATCTAACATTGCAAGTGTAATGGGCAAGAAGCCTCCGTTGTG
CTTTTTTTTTCTCTTTCAGTAACTTTTGCAACATTATTGCATAGAAGATCCCTGACCATTTACTAGGAACCTGGT
TAAGCAAGCACTAATCTCTTTTCTGGAGATCAAGGATGCAACCTCAGGTTGAGAAAGAAACAGGGTTCCCTGGG
CCCATTAGACTGTTTGCAGGGCATCACTGCTTCCCCCTGACACCTCACAACCTAGCAAAAATTGCTTTGTCTTTG
GAAATTATAGAGGGATTTGGGTATCCAGATTGTGCAGATGCAAACTTAGGCTGTCTTGATGCAAACTTAGAACCA
CAGAAATGCTTTTAAATGCCTGTTTTAAGATGGAATTGTTGTTTTTATAATTTGATTTTAGTGCTAAATAAATG
ATTGGCTTTGTACATGAATATGTTCTGTACAAGTGCTCTTTCACTAGTACTACAGATAATCAAAGCTATCAGAAT
TGTGCTTTGATCATATTTGACGGTAATACACAAATAAATCCATGTTTTAGCAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 4540

MSEAYFRVESGALGPEENFLSLDDILMSHEKLPVRTETAMPRLGAFFLERSAGAETDNAVPOGSKLELPLWLAKG
LFDNKRRIILSVELPKIYQEGWRTVFSADPNVVDLHKMGPHFYGFQSOLLHFDSPENADISQSLLQTFIGRFRRIM
DSSQNAYNEDTSALVARLDEMERGLFQTGQKGLNDFQCWEKGQASQITASNLVQNYKKRKFTDMED

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FIGURE 4541

GGTCCACCAATGGCCCTGCTGCACTCCGGCCGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCG
CCGCGGCCTCTGCCAGAGCCAGCTCCTGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCA
CTGAAGCCTTTAAGAGGGACACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAATGGAA
AGCCTTACGTTCTGCCITAGCGTCCGCAAGGCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGC
CCATTGGGGGACTGGCTGAATTTTGCAAGGCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGA
GTGGCCGGTTTTGTCACTGTGCAGACCATTTCTGGAAGTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGAT
TTTTTAAGTTTACGCCGAGATGTCTTTCTGCCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTG
GCATGCAGCTACAAGTTATCGGTATTATGACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATA
TTTCAAAAATACCAGAGCAGAGTGTCTTCTTCTGCATGCCTGCGCCCAATCCACAGGGAGTGGACCCGCGTC
CGGAACAGTGGAAAGGAAATAGCAACAGTGGTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAG
GCTTTGCCAGTGGTGATGGTGATAAGGATGCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGGC
TCTGCCAATCATATGCCAAGAACATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATG
CGGATGAAGCCAAAAGGGTAGAGTACAGTTGAAGATCTTGATCCGTCCCATGTATTCCAACCCCTCCCCTCAATG
GGGCCCGGATTGCTGCTGCCATTCTGAACACCCCAAGTTTGCGAAAACAATGGCTGCAAGAAGTGAAAGTCATGG
CTGACCGCATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAAC
ACATCACCGACCAAATTTGGCATGTTCTGTTTACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGT
TCTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGCTACCTTGCCC
ATGCCATTACCAAGTCAACCAAGTAATGTCCCTGGTGGCAGGAAACAGAGACAACCTTTCTGTCTTCAGCCCTCTG
CTATTGAGAGCTTACACAGACAATGAGAGAGGGTGGATGGTGGTGAGTGGATCATTTCTTTTACGCCACAGTGTG
TAACACTCAGCATTGGAATGTTTCTCAGAAAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTC
TGGAATATTAAACCAAACCTCTCCCCGGTCCTTTTTTCTCCAACCTTTTCTCAAAGAGTTTACATGTGCAAGAAAGT
CATCGCACCAAAAAACCTGTCAATTATGCCATTGCAATATTTTCAAGAGCTTTAACTGAAGTGTCAAGTTCTCTCGT
GAGAAACAGCACACGTTAGAGGCTTTGAGAGAAGGCCTAGTTCTGTGATGAGTAGTCGGCCTCGTGTCTGTCTCTC
CCATCTTGGAACAACCTTATCAACAGGCCGCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCA
CTCCAGCAAGGGAAATAATGCAGTTTCTGTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATT
GCCGTTCTTTTCTTACACGCAAAGATTTTTTAACTATTGCAGATTTTTCATCCCATCTACTGCTTGATTGACCA
TCAACTCCATCCTATCGAGATTTATTTAAGAATGAAGAACATAATTTTCTGCTGATGCTGTACCCCTACCCTTTT
CAGCAAAGAATAGTGGAGAGTAGGAACTGTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCA
GTTGGGATGTTGTCTCTGCCCCGTTGGACCTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTG
TGAGTCCAGCGCGCAGGGTGGTACCAGGAAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTTACGGCT
TCACCCACTGGAAAGAACCACCATCTGCTCTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTACAATAAA
ATTACTGTAGACCC

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FIGURE 4542

MALLHSGRVLPGIAAAFHPGLAAAASARASSWWTHVEMGPPDPILGVTEAFKRDTSKKMNLGVGAYRDDNGKPY
VLPSVRKAEAQIAAKNLDKEYLP IGG LAEFCKASAELALGENSEVLKSGRFVTVQTISGTGALRIGASFLQRFFK
FSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYYDPKTCGFDTGAVEDISKIPEQSVLLHACAHNPTGVDP RPEQ
WKEIATVVKKRNLF AFFDMAYQGFASGDGDKDAWAVRHFI EQGINVCLCQSYAKNMGLYGERVGAF TMVCKDADE
AKRVESQLKILIRPMYSNPPLNGARIAAAI LNTPD LRKQWLQEVKVMADRI IGMRTQLVSNLKKEGSTHNWQHIT
DQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGYLAHAIHQVTK

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FIGURE 4543

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCTTTATGGCAAGCCACT
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAAGTACTGTATGAGT
TAATAAA

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FIGURE 4544

ATGGCGGACCTTGATTGCGCTCCGAAGCTGTGAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGCTGC
TCCGAAATCTCCGCTGAGCTCATTCGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTCTGC
GGCGAGGAGAAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATGGTC
ACTCTCCACCGAATGGGTCTTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACCTTT
ACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCGTGAGCTTGACCTGGCCAAGAACCGCCTCTATCAGGCC
ATTCAGAGAGCTGATGACATCTTGGACCTGAAGTCTGTCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGAT
TATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGC
AAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCA
GAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTGCTG
GGTTTGCATGAGGAGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAGAAT
CTGCTCATGGTGTGGGGACAGACATGAGTGTGCGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTTCTG
TTTGAAGGGATTGCCCCGATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCTAT
ACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAAAGG
GACTACCACCAGCAGTTCCGGCATGTTCAGAACAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCAAGA
GAAGTGGACCCCATCTGACTGAGGTACCCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCTCAAGAAG
AGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGTCTG
GACAAACTCCTCAATAACTGCCTTTGTAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAGGAG
TACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGCATG
GTGGATGATGCTTCTACATTGTTAAGAAGTGCAATGGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGT
GCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGC
TTTCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTCCAG
CAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGGGACATATTCTGAGT
CACCTGAGCCACGATAGAGGCTGGGCTGTCCAGCTGTACCTAGAAATTCATTCCCCAGAGCACTGGCCAGCTGCT
CAGGAGCCCACTGAGTGCCAAGCTTGGCTTGCACTGCCCACAGAACCAGCTCTACCATCTGTGCCAGACCACCAG
ACTGCTTCTCTGAGGAGAGGGCCCGCAGCATGGGCAGGCGCCAGTCCTTCGGGCCTGCCATCACTGCTCTGCTAGT
ACATGTCTTAGGCTTTCAACTTCTCTGGAAGGAGGCTTTATTAAAGCCCTTTGCTACCCAGAATGACAGATGT
GATAAAGCAGCAAGCCTTCCATTGTGTGACAGCTTGAAAGGAGGAGCACAGAAGGATGA

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FIGURE 4545

GGCACGAGGCAGCGTCAGCTGACCTGGGGAGTCGCGATTTCGTGCCGGCCGGTCCTGGTTCTCCGGTCCCGCCGCT
CCCGCAGCAGCCATGTCGTTCTTCCCGGAGCTTTACTTTAACGTGGACAATGGCTACTTGGAGGGACTGGTGCGC
GGCCTGAAGGCCGGGGTGCTCAGCCAGGCCGACTACCTCAACCTGGTGCAGTGCGAGACGCTAGAGGACTTGAAA
CTGCATCTGCAGAGCACTGATTATGGTAACTTCCTGGCCAACGAGGCATCACCTCTGACGGTGTCACTCATCGAT
GACCGGCTCAAGGAGAAGATGGTGGTGGAGTTCGCCACATGAGGAACCATGCCTATGAGCCACTCGCCAGCTTC
CTAGACTTCATTACTTACAGTTACATGATCGACAACGTGATCCTGCTCATCACAGGCACGCTGCACCAGCGCTCC
ATCGCTGAGCTCGTGCCCAAGTGCCACCCACTAGGCAGCTTCGAGCAGATGGAGGCCGTGAACATTGCTCAGACA
CCTGCTGAGCTCTACAATGCCATTCTGGTGGACACGCCTCTTGCGGCTTTTTTCCAGGACTGCATTTAGAGCAG
GACCTTGACGAGATGAACATCGAGATCATCCGCAACACCCTCTACAAGGCCTACCTGGAGTCCTTCTACAAGTTC
TGCACCCTACTGGGCGGGACTACGGCTGATGCCATGTGCCCCATCCTGGAGTTTGAAGCAGACCGCCGCGCCTTC
ATCATCACCATCAATTCTTTCGGCACAGAGCTGTCCAAAGAGGACCGTGCCAAGCTCTTTCACACTGTGGGCGG
CTCTACCCTGAGGGCCTGGCGCAGCTGGCTCGGGCTGACGACTATGAACAGGTCAAGAACGTGGCCGATTACTAC
CCGAGTACAAGCTGCTCTTCGAGGGTGCAGGTAGCAACCCTGGAGACAAGACGCTGGAGGACCGATTCTTTGAG
CACGAGGTAAAGCTGAACAAGTTGGCCTTCCTGAACCAGTCCACTTTGGTGTCTTCTATGCCTTCGTGAAGCTC
AAGGAGCAGGAGTGTGCAACATCGTGTGGATCGCTGAATGTATCGCCCAGCGCCACCAGCCCAAAATCGACAAC
TACATCCCTATCTTCTTAGCGTCCTGGCCCAAGGCTCTCAATTGCACTCTTGTGTGTGTGTGTGTGTGTGTGCGC
GTGTGTGTGCGTGTGTGTGTATGTGGTCTGTGACAAGCCTGTGGCTCACCTGCCTGTCCGGGGTGTAGTACGCTG
TCCTAGCGGCTGCCAGTTCTCCTGACCCTCTTAGAGACTGTTCTTAGGCCTGAAAAGGGGCTGGGCACCCCCC
CCACCAAGGATGGACGAAGACCCCTCCAGAGCAAGGAGCCCCCTCAGCCCTGTGGTTACAGCCGCTGATGTAT
CTAGAAGCATGTCACTTTTCATGTTCTCCCTAACTCCCTGACCTGAGAACCTTGGGGCCTGGGGGCAGTTTGAG
CCTCCTCTCCCTTCTGTGGGTCGCTCCAGAGCCATGGCCCATGGGAAGGACAGAGTGTGTGTGTCTTGGGGCC
TGGGGGGATGTTGCTCCTCAGCTCCCTCCCTCAGCCCTGCCCCTCTGAGACAATAAACTGCCCTCTCTAAGGCA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4546

MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDRLK
EKMVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAEL
YNAILVDTPLAFFQDCISEQDLDEMNIIEIRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITI
NSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLED RFFEHEVK
LNKLAFNLNQFHFVGFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPIF

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FIGURE 4547

CGCGCCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCTCTCCCCGCTCCCCGGCCCCGGC
CCCCGCCCCGCCCCGCCCCAGCCCGCTGGGCCGCCATGGAGCGCTGGCCTTGGCCGTCGGGCGGCGCCTGGCTGC
TCGTGGCTGCCCGCGCGCTGCTGCAGCTGCTGCGCTCAGACCTGCGTCTGGGCCGCCCCGCTGCTGGCGGCGCTGG
CGCTGCTGGCCGCGCTCGACTGGCTGTGCCAGCGCCTGCTGCCCCCGCCGGCCGCACTCGCCGTGCTGGCCGCCG
CCGGCTGGATCGCGTTTGTCCCGCTGGCGCGCCCCGACGCGCCTGCCGGTGGCCACTCGCGCGGTGCTCATACCG
GCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAACTGGACTCCATGGGCTTCACGGTGCTGGCCACCGTAT
TGGAGTTGAACAGCCCCGGTGCCATCGAGCTGCGTACCTGCTGCTCCCTCGCCTAAGGCTGCTGCAGATGGACC
TGACCAAACCAGGAGACATTAGCCGCTTGCTAGAGTTACCAAGGCCACACCACCAGCACCGGCCTGTGGGGCC
TCGTCAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCAGTGGCCACTTTCCGTAGCTGCA
TGGAGGTGAATTTCTTTGGCGCGCTCGAGCTGACCAAGGGCCTCCTGCCCTGCTGCGCAGCTCAAGGGGCCGCA
TCGTGACTGTGGGGAGCCCAGCGGGGACATGCCATATCCGTGCTTGGGGGCTATGGAACCTCCAAAGCGGCCG
TGGCGCTACTCATGGACACATTCAGCTGTGAACCTCTTCCCTGGGGGGTCAAGGTCAGCATCATCCAGCCTGGCT
GCTTCAAGACAGAGTCAGTGAGAAACGTGGGTGAGTGGGAAAAGCGCAAGCAATTGCTGCTGGCCAACCTGCCTC
AAGAGCTGCTGCAGGCCTACGGCAAGGACTACATCGAGCACTTGCAATGGGCAGTTCCCTGCACTCGCTACGCCTGG
CCATGTCCGACCTACCCCCAGTTGTAGATGCCATCAGATGCGCTGCTGGCAGCTCGGCCCCGCGCCGCTATT
ACCCCGGCCAGGGCCTGGGGCTCATGTACTTCATCCACTACTACCTGCCTGAAGGCCTGCGGCGCCGCTTCCTGC
AGGCCTTCTTCATCAGTCACTGTCTGCCTCGAGCACTGCAGCCTGGCCAGCCTGGCACTACCCACCACAGGACG
CAGCCCAGGACCCAAACCTGAGCCCCGGCCCTTCCCCAGCAGTGGCTCGGTGAGCCATGTGCACCTATGGCCCAG
CCACTGCAGCACAGGAGGCTCCGTGAGCCTTGTTCTCCCCGAAAACCCCCAGCATTACGATCCCCCAAGTGTC
CTGGACCCTGGCCTAAAGAATCCACCCCCACTTCATGCCCCTGCGGATGCCCAATCCAGGCCCGGTGAGGCCA
AGGTTTCCAGTGAGCCTCTGCGCCTCTCCACTGTTTCATGAGCCCAAACACCCTCCTGGCACAACGCTCTACCC
TGCAGCTTGGAGAACTCCGCTGGATGGGAGTCTCATGCAAGACTTCACTGCAGCCTTTACAGGACTCTGCAGAT
AGTGCTCTGCAAACTAAGGAGTGACTAGGTGGGTGGGGACCCCTCAGGATTGTTTCTCGGCACCAAGTGCCTC
AGTGCTGCAATTGAGGGCTAAATCCCAAGTGTCTCTTGACTGGCTCAAGAATTAGGGCCCCAACTACACACCCCC
AAGCCACAGGGAAGCATGTACTGTACTTCCCAATTGCCACATTTTAAATAAAGACAAATTTTATTCTCTTA

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FIGURE 4548

MERWPWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLPPPAALAVLAAAGWIALSRLARP
QRLPVATRAVLITGCDSGFGKETAKKLDMSGFTVLATVLELNSPGAIELRTCCSPRLRLLQMDLTKPGDISRLLE
FTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFFGALELTGGLPLLRSSRGRIVTVGSPAGDMP
YPCLGAYGTSKAAVALLMDTFSCELLPWGVKVSIIQPGCFKTESVRNVGQWEKRKQLLLANLPQELLQAYGKDYI
EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLMYFIHYLPEGLRRRFLQAFFISHCLPRA
LQPGQPGTTPPQDAAQDPNLSPGPSPAVAR

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FIGURE 4549A

AGTGGCGTCGGAAC TGCAAAGCACCTGTGAGCTTGCGGAAGTCAGTTCAGACTCCAGCCCGCTCCAGCCCGGCC
GACCCGACCGCACCCGGCGCTGCCCTCGCTCGCGCTCCCCGGCCAGCCATGGGCCCTTGAGCCGACGCTCTC
GGCGCTGCTGCTGCTGCTGCAGGTCTCCTCTTGCTCTGCCAGGAGCCGAGCCCTGCCACCCCTGGCTTTGACGC
CGAGAGCTACACGTTACAGGTGCCCCGGCGCCACCTGGAGAGAGGCCGCGCTCTGGGCAGAGTGAATTTTGAAGA
TTGCACCGGTGACAAAGGACAGCCTATTTTTCCCTCGACACCCGATTCAAAGTGGGCACAGATGTTGTGATTAC
AGTCAAAGGCCTCTACGGTTTCATAACCCACAGATCCATTTCTTGGTCTACGCCCTGGGACTCCACCTACAGAAA
GTTTTCCACCAAAGTCACGCTGAATACAGTGGGGCACCACCACCGCCCCCGCCCCATCAGGCCTCCGTTTCTGG
AATCCAAGCAGAATTGCTCACATTTCCCAACTCCTCTCCTGGCCTCAGAAGACAGAAGAGAGACTGGGTTATTCC
TCCCATCAGCTGCCCAGAAAATGAAAAAGGCCATTTCTTAAACCTGGTTTCAGATCAAATCCAACAAAGACAA
AGAAGGCAAGGTTTTCTACAGCATCACTGGCCAAGGAGCTGACACACCCCTGTTGGTGTCTTTATTATTGAAAG
AGAAACAGGATGGCTGAAGGTGACAGAGCCTCTGGATAGAGAACGCATTGCCACATACACTCTCTCTCTCACGC
TGTGTCAATCCAACGGGAATGCAGTTGAGGATCCAATGGAGATTTTGATCACGGTAACCGATCAGAATGACAACAA
GCCCCAATTCACCCAGGAGGTCTTTAAGGGGTCTGTCTATGGAAGGTGCTCTTCCAGGAACCTCTGTGATGGAGGT
CACAGCCACAGACGCGGACGATGATGTGAACCTACAATGCCGCCATCGCTTACACCATCCTCAGCCAAGATCC
TGAGCTCCCTGACAAAAATATGTTTACCATTAAACAGGAACACAGGAGTCATCAGTGTGGTCACCCTGGGCTGGA
CCGAGAGAGTTTCCCTACGTATACCCCTGGTGGTTCAAGCTGCTGACCTTCAAGGTGAGGGGTTAAGCACAACAGC
AACAGCTGTGATCACAGTCACTGACACCAACGATAATCCTCCGATCTTCAATCCCACCACGTACAAGGGTCAGGT
GCCTGAGAACGAGGCTAACGTCGTAATCACCACACTGAAAGTGACTGATGCTGATGCCCCCAATACCCACGCTG
GGAGGCTGTATACCATATTGAATGATGATGGTGGACAATTTGTCGTCACCACAAATCCAGTGAACAACGATGG
CATTTTGAAAACAGCAAAGGGCTTGGATTTTGAGGCCAAGCAGCAGTACATTCTACACGTAGCAGTGACGAATGT
GGTACCTTTTGAGGTCTCTCTCACCACCTCCACAGCCACCGTCACCGTGGATGTGCTGGATGTGAATGAAGCCCC
CATCTTTGTGCTCCTGAAAAGAGAGTGGAAGTGTCCGAGGACTTTGGCGTGGGCCAGGAAATCACATCCTACAC
TGCCCAGGAGCCAGACACATTTATGGAACAGAAAATAACATATCGGATTTGGAGAGACACTGCCAACTGGCTGGA
GATTAATCCGGACACTGGTGCCATTTCCACTCGGGCTGAGCTGGACAGGGAGGATTTTGAGCACGTGAAGAACAG
CACGTACACAGCCCTAATCATAGCTACAGACAATGGTCTCTCCAGTTGCTACTGGAACAGGGACACTTCTGCTGAT
CCTGTCTGATGTGAATGACAACGCCCCCATACCAGAACCTCGAACTATATTCTTCTGTGAGAGGAATCCAAAGCC
TCAGGTCAATAACATCATTGATGCAGACCTTCTCCCAATACATCTCCCTTCACAGCAGAACTAACACACGGGGC
GAGTGCCAACTGGACCATTAGTACAACGACCCAACCAAGAATCTATCATTTTGAAGCCAAAGATGGCCTTAGA
GGTGGGTGACTACAAAATCAATCTCAAGCTCATGGATAACCAGAAATAAGACCAAGTGACCACCTTAGAGGTGAG
CGTGTGTGACTGTGAAGGGGCCCGCGCGCTCTGTAGGAAGGCACAGCCTGTGGAAGCAGGATTGCAAAATTCCTGC
CATTCTGGGGATTCTTGGAGGAATTCTTGCTTTGCTAATTCTGATTCTGCTGCTCTTGCTGTTTCTTCGGAGGAG
AGCGGTGGTCAAAGAGCCCTTACTGCCCCAGAGGATGACACCCGGGACAACGTTTATTACTATGATGAAGAAGG
AGGCGGAGAAGAGGACCAGGACTTTGACTTGAGCCAGCTGCACAGGGGCTGGACGCTCGGCCTGAAGTGACTCG
TAACGACGTTGCACCAACCTCATGAGTGTCCCCGGTATCTTCCCCGCCCTGCCAATCCCGATGAAATTGGAAA
TTTTATTGATGAAAATCTGAAAGCGGCTGATACTGACCCACAGCCCCGCCTTATGATTCTCTGCTCGTGTGTA
CTATGAAGGAAGCGGTTCCGAAGCTGCTAGTCTGAGCTCCCTGAACTCCTCAGAGTCAGACAAAGACCAGGACTA
TGACTACTTGAACGAATGGGGCAATCGCTTCAAGAAGCTGGCTGACATGTACGGAGGCGGCGAGGACGACTAGGG
GACTCGAGAGAGGCGGGCCCCAGACCATGTGCTGGGAAATGCAGAAATCACGTTGCTGGTGGTTTTTCAGCTCC
CTTCCCTTGAGATGAGTTTCTGGGGAAAAAAGAGACTGGTTAGTGATGCAGTTAGTATAGCTTTATACTCTCT
CCACTTTATAGCTCTAATAAGTTTGTGTTAGAAAAGTTTCGACTTATTTCTTAAAGCTTTTTTTTTTTTCCCATC
ACTCTTTACATGGTGGTGATGTCCAAAAGATACCCAAATTTTAAATATTCCAGAAGAACAACCTTAGCATCAGAAG
GTTACCCAGCACCTTGAGATTTTCTTAAAGAAATTTGTCTCACTTTTAAAAAGAAGGGGAGAAGTCAGCTACT
CTAGTTCTGTGTTTTGTGTATATAATTTTTTAAAAAAATTTGTGTGCTTCTGCTCATTACTACACTGGTGTGT
CCCTCTGCCTTTTTTTTTTTTTTAAAGACAGGGTCTCATTCTATCGGCCAGGCTGGAGTGCAGTGGTGAATCAC
AGCTCACTGCAGCCTTGCTCTCCAGGCTCAAGCTATCCTTGACCTCAGCTCCCAAGTAGCTGGGACCACAGG
CATGCACCACTACGCATGACTAATTTTTTAAATATTTGAGACGGGGTCTCCCTGTGTTACCCAGGCTGGTCTCAA
ACTCCTGGGCTCAAGTGATCCTCCCATCTTGGCCTCCAGAGTATTGGGATTACAGACATGAGCCACTGCACCTG
CCCAGCTCCCAACTCCCTGCCATTTTTTAAAGAGACAGTTTCGCTCCATCGCCAGGCTGGGATGCAGTGTATGT

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FIGURE 4549B

GATCATAGCTCACTGTAACCTCAAACCTCTGGGGCTCAAGCAGTTCTCCCACCAGCCTCCTTTTTATTTTTTTGTA
CAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAAACCTCTGGCCTCAAGCAATCCTTCTGCCTTGGCCCC
CAAAGTGCTGGGATTGTGGGCATGAGCTGCTGTGCCCAGCCTCCATGTTTTAATATCAACTCTCACTCCTGAATT
CAGTTGCTTTGCCCAAGATAGGAGTTCTCTGATGCAGAAATTATTGGGCTCTTTAGGGTAAGAAGTTTGTGTCT
TTGTCTGGCCACATCTTGACTAGGTATTGTCTACTCTGAAGACCTTTAATGGCTTCCCTCTTTCATCTCCTGAGT
ATGTAACCTGCAATGGGCAGCTATCCAGTGACTTGTTCTGAGTAAGTGTGTTCAATTAATGTTTATTTAGCTCTGA
AGCAAGAGTGATATACTCCAGGACTTAGAATAGTGCCTAAAGTGCTGCAGCCAAAGACAGAGCGGAACATGAAA
AGTGGGCTTGGAGATGGCAGGAGAGCTTGTCAATTGAGCCTGGCAATTTAGCAAACCTGATGCTGAGGATGATTGAG
GTGGGTCTACCTCATCTCTGAAAATTCTGGAAGGAATGGAGGAGTCTCAACATGTGTTTCTGACACAAGATCCGT
GGTTTGTACTCAAAGCCCAGAATCCCCAAGTGCTGCTTTTGATGATGTCTACAGAAAATGCTGGCTGAGCTGAA
CACATTTGCCCAATTCCAGGTGTGCACAGAAAACCGAGAATATTCAAAATTCCAAATTTTTCTTAGGAGCAAGA
AGAAAATGTGGCCCTAAAGGGGGTTAGTTGAGGGGTAGGGGGTAGTGAGGATCTTGATTGGAATCTCTTTTTATT
TAAATGTGAATTTCAACTTTTGACAATCAAAGAAAAGACTTTTGTTGAAATAGCTTTACTGTTTCTCAAGTGTTT
TGGAGAAAAAATCAACCTGCAATCACTTTTTGGGAATTGTCTTGATTTTTTCGGCAGTTCAAGCTATATCGAATA
TAGTTCTGTGTAGAGAATGTCAGTGTAGTTTTGAGTGTATACATGTGTGGGTGCTGATAATTGIGTATTTTCTTT
GGGGGTGGAAGGAAAACAATTCAAGCTGAGAAAAGTATTCTCAAAGATGCATTTTATAAATTTTATTAAACA
ATTTTGTAAACCATAAAAAAAAAAAAAA

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FIGURE 4550

MGPWSRSLSALLLLLQVSSWLCQEPEPCHPGFDAESYTFVPRRHLEGRVLRVNFEDCTGRQRTAYFSLDTRF
KVGTDGVITVKRPLRFHNPQIHFLVYAWDSTYRKFS TKVTLN TVGHHHRPPPHQASVSGIQAELLTFPNSSPGLR
RQKRDWVIPPISCPENEGPFPKNLVQIKSNKDKEGKV FY SITGQGADTPPVGVFIIERETGWLKVTEPLDRERI
ATYTLF SHAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTATDADDDVNTYNAAI
AYTILSQDPELPDKNMF TINRNTGVISVVT TGLDRESFPTYTLVVQAADLQGEGLSTTATAVITVTDNDNPPIF
NPTTYKGQVPENEANVVITTLKVTADAPNTPAWEAVYTI LNDDGGQFVVTTNPVNNDGILKTAKGLDFEAKQQY
ILHVAVTNVVPFEVSLTTSTATVTVDVLDVNEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRI
WRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYTALIIATDNGSPVATGTGTL LLLILSDVNDNAPIPEPRTI
FFCERNPKPQVINIIDADLPNTSPFTAELTHGASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNK
DQVTTLVSVCDCEGAAGVCRKAQVEAGLQIPAILGILGGILALLIL LLLLLLFLRRRAVVKEPLLPPEDDTRD
NVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPRYLPRPANPDEIGNFIDENLKAADTDPTAP
PYDSSLVFDYEGSGSEAASLSSLNSSES DDKDQDYDYLNEWGNRFKKLADMYGGGEDD

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FIGURE 4551

AGTGCTCGCGGCGGCGGCGACGGCGGCGGGAGGTTTCGGTTGTCGCCCGTTGGCCGCGCGGCGCCGCGCTCGGCGG
CCGCCATTGCAGGGAATCCCTGTGCTGATCGTGGGGCATCATATCCTGTATGGGAAAATCATCCACCTGGAGAAA
CCTTTTGCAGTCCTTGTCAAACACACTCCTGGGGATCAGGACTGTGATGAGCTTGGCCGCGAGACTGGCACCCGG
TACCTGGTGACAGCACTCATCAAAGACAAGATCCTTTTCAAACCCGCCCCAAGCCCATTATCACCAGCGTCCCC
AAGAAAGTATGAAAGAACCTCGGATTTTCCCTAGAGAGCGGCCAACTCCTTGACTCGTGCTCCGCTGCCACCTC
GAGGACGGCTCGACGGTTCCCTGGGACCACAGGGGGTCTCTGTTCTGAACACAGGCCACCCACTGGGTGTGAAC
CGGATCCCTTCCCTATGGCGGCCGTTCTCTTGGTGAAATCTGACCCCATTTCCAAGGAACCCATCTCCTTTTC
CAGCTTCATCAGGCTCATTGGCTTCAAATCCAGCACCTTTCCCGGCTGGTGCTCGTGACCAAGTATGGCTTCTT
TTCCAAGAGGGATGAATCCACTGGCACAGGTGCAGTTCTTTTCCCAAGGCCTGGTGGCCTCTTGGGGCCAGGCC
CAGGCCCAGGCCCCACCTAAACCCTAGGACAGGGGCTCTGCCAGGCCAGGGCCTCTGTCTAACCCAGGTTAG
GGGGTCTCCCAGGACCAGGTCTATGTCCAACCCAAGGGCAGGTGGTCTCCTGGGAGCAGGTCTGACCCAGAG
GTGGTGGTCCCATGGGCCCTGGATCTGGACCTAACCTGAGAGCCGGTGTCTGTAACTCTGGGAATGTCCTC
CCAATCCTAGGCCAGTTGGCCTGGGCCCAGGACCAAAACCCAATCTGAGATCAGGCTTTTATAGGGACAAACCTG
CCCCAGGTACAGGTGTGTTTCCAGGCCCAGGCCTTGGGCCCAACCCAAGACCAAGTGGCCTGGGCCCAGGCCCTA
ATCTAGATGCCAGAGCAGGTGGCCTCTTGGGCACAGGATCTGGTCTTAACTTAAGAATGGCTGGACCTCAAGGCC
TCGATCTTGCCCCCATTTCTAAGAGCAGCAGGTCTTTTAGGAGCAAATTCAGCTTCTTTCTCACAGGCTTCTGGAA
ACATGGGCACAAGCCCATCTCCATGGCAAGAGTACCTGGCCCCATGGGCCCAAACCTCGGGTCTAGCTCTCGGG
GAATTGGCCTTCCAGGGCCAAATCCATCTCCCATGTCAAGGGCTCCTGGCCCCATAGGCCCTAAATTCAGCTCATT
TCTCAAGGCCAGTTGGCCCCATGGGGGTAAATGCCAATCCCTTTCCAGGGGAGCAGGTTCTATCTGCCTTTTCTC
AGTCTTCTGGCACATTGGCATCAAACCCAGCTACCTTCCAAAGGTCCGCTGGCCTCCAGGGCTCAAATCCAACCA
TTTTCCAAGAGCCTCTGGGCCACTTGGCCCCAACCCAGCTAACTTCCCAAGGGCCACTGGCCTGCAGGGTCCAA
GTCCAACCTACCTTCCCAAGGTCTACTGGCCCATTAGGCCTGGTCAAGTTACTTTCCCCAGGCCAGCTGCCGGGC
ATCTGGGCCCTTCTCCAGCTGGCCCTGTGGGTATCAACCCAGCTCCTTTTACAAGGCCAACTGGGACCCTGGGTC
TCAACCCAGCTTCCCTTTCCAAGGATGAATGGCCCTGCAGGCAAGAGTTTCGTCCCATTTCTAGAGTGGGGAGCC
TCCCTGGCACAAACCCAGCTGCTTTCCCGAGACCAGGGGTCCAATGGCTGCAATGTACCCAAATGGAATGTTGC
CCCCTTAAACACCATTTTCCCTCCAGGACCACCTTGGTTTCTAGGCACCTGTGGTTCTTGGCAGGGGCTGTCTTAG
GTAAAAGGGTAGTTGTGGAGCTACAGTCTGAAGAACATAGCTTGGGCTCAAGTTCAAATGAGCCATCTTTTTCTC
TTGCGTTTTTCTTGAAGGTGAGATGTTATTTGTGGCATGTGAACGTGTGGCAGGTGGGAATAATCTGCCCT
TGAGAGAAAGGATCTCCAGCCTCCAGAGCCTGCTGTGCTTTCTGTCACAGCTTTCTGCCCATTTGTTTCTTAC
TAGTTTCTTGAATTGTTCTTGTGGACTTTTCTCAGGGATACATTGGCCTGCAGGTCCAGTTCAATGTAGTCC
CCTGCTCACCATTGGAGAATCAGCTCACTGCTCTCTAGAAACGTGGCGTTGGTGAACGGACCATGCTTCCGTAGC
TCTGACCTGGGCAGCTTGGACCTGGTCACTCTACTGCCATACCTTTCCCTGGGGGCTTGAACACAGAACAGGG
AGATGGACAACCACTTCAAAGAAAGACCCACCGAATGCAGTTTCTGCTTGACTGACTGGGCCTGCAGCTCCCTTC
TCCTGGGACTTAGAGGTGGCCAGATTTAAGGCCCTCTACTCATCCAACCTCCCTCTTCACTGGTACTCCCAATCA
ATCAAAGAACCTCAAAATTTAAACTGATGTGGATGGGAATATGGGAATTAGGGTGGGGGTGGGGATGAAGGGAA
GAAATCACTGTGCTTTGTTCCGCCTGGTGTGCAAGGATGGTTGGTGGTTTTCTGCATTGTATCTTTTCTTACTG
TTTCTTTAATAAATGGGATGAGAGGGC

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FIGURE 4552

MKEPRIFFRERPTPWTRAPLEPRGRLDGSLGPQGGPVLNTGHPLGVNSDPFLMAAGSLGGNLTFFFRNPSPFPAS
SGSLASNPAPFPAGARDPSMASFPRGMNPTGTGAVSFPRPGGLLGPGP GPGPTLNERTGALPGPGPLSNPRLGGL
PGPGPMSNPRAGGLLGAGPDPRGGGPMGPGSGPNLRAGVLLTSGNGPPNPRPVGLGPGPNPNLRSGFLGTNPAPR
SGVFPGPGLGPNRPSGLGPGPNLDARAGGLLGTGSGNLNRMAGPQGLDLAPILRAAGLLGANSASFQASGNMG
TSPSSMARVPGPMGPNSGPSSRGIGLPGNPSPMSRAPGPIGPNSAHFSRPVGPMGVNANPFPRGAGSSAFSQSS
GTLASNPATFQRSAGLQGSNPTIFFPRASGPLGNPANFP RATGLQGPSPTTFPRSTGPLGPGQVTFPRPAAGHLG
PSPAGPVGINPAPFTRPTGTGLGNPASFPRMNGPAGKSFVPFPRVGS LPGTNPAAFPRPGGPMAAMYPNGMLPP

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FIGURE 4553

CTCAGTTAGCGGTGGAGAGGCAGTATGTCCGGTTCAATGCGGACTGCGGAAGCTAGCGGCAGCGATGGGAAAGGG
CAGGAAGTCGAGACCTCAGTCACCTATTACCGGTTGGAGGAGGTGGCAAAGCGCAACTCCTTGAAGGAACTGTGG
CTTGATCCATGGGCGAGTCTACGATGTACCCGCTTCCTCAACGAGCACCTGGAGGAGAAGAGGTTCTGCTG
GAACAAGCTGGTGTAGATGCAAGTGAAAGCTTTGAAGATGTAGGACACTCTTCTGATGCCAGAGAAATGCTAAAG
CAGTACTACATTGGTGATATCCATCCGAGTGACCTTAAACCTGAAAGTGGTAGCAAGGACCCTTCAAAAAATGAT
ACATGCAAAAGTTGCTGGGCATATTGGATTTTACCCATCATAGGCGCTGTTCTCTTAGGTTTCTGTACCGCTAC
TACACATCGGAAAGCAAATCCTCCTGAGGAGGCTTGCTGAAGTTAGAAAGTGCATCCACTTTGGGGCGAAAACCT
AGAGACTTGCTTGGGGGCTGCAGAAAGTGCCCTCTCCTCGAATCCTGCCAGTTGCATTCTTCCCCCTTGGAGCCAA
GACGATTGGCCAGACATCACCTCAGATCTGAGACCAGCGTCTTCCATCTCTCAGAGCCTTACTCCCAAAGTACCT
GCTCACTGTTCGGTGTGAACAATTGCCGGTGTTCCTCTCTTCACTGGTTTCCATGAGTACCCTTATATTTTAC
AACTTTCTGTTCATAAGTTATAGTGACATTGCTCTTTGGTAAAAATGCCTGCTTTCCAATACTTTGATTGCATAT
TAGACATTCTTAACAGGGCGGCAGTCTAGTGTTGAAAGTTTTATTTTCCATTTTCTTTAAGTAAATTTTTTT
TAAAAAATCTGATTTAGGGCTAGGTGTGGTGGCTCAGGCCTGTAATCCTGGCACCTTGGGAGGCCAAGGTGGGA
ACATCGCTTGAGGCCAAGAGTTCAAGACCAGCCTGGGCAACATAGCGAGACCCCTATCTGTATTAATAAAAAATC
TGATTTAATCTTTTATTTATCATAAGGGGTTAATTCCTGAAGTAAAGGTTTGCACCTATTAACTTAAACTG
CCAAATGATTTTGTCTTTTATGTGCGTGATAAAAAATACAAAGAATGGTGTGGCCACCTCCTCCCTTCAAGCT
AGGGCAGCAGGTAGCTCTTCCAGCCCCCTGAGCCAGCCCCCTTCCAAGTGGTGGCGACAAAAACTACATGGC
CCTTTCGTGCTTGGGGGTGGAAAGGGAGGGATGAATTGGGGTGATAGAACCCTGGTGAATTCAGAGTAATCTTT
CTTTAGAAAAGTGGTGTCTTCTAAAGAAACAGGATAGGAGTTTAGAGAAGGCACCAAAGCTTTCACCTTGGTTT
GCACCACTTCTAACCATCTGTTTTTCTACCTAGCTATCTTTATTGGTAAAAATATAAATGTATAATTATGTT
TGTAGAGCTTTACCAAGGAGTTTCCCTCCTTTTTTGTGTTGTTGATTAGCAAATTTTGTATTCTCCATTTTCAA
AAGTAAGAGACTCCAGCATGGCCTTCTGTTTGCCCCGAGTAAAGTAACTTCCATATAAAATGGTATTGAAAGT
GAGAGTTCATGACAACAGACCGTTTTCCATTTCACTGTATTTATCTCCGTGACTCCAACCTGTGGGTTTGTTC
TGTTTTTCCATGAGAATAAAATACTGGCGTTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4554

MATAEASGSDGKGQEVETSVTYRLEEVAKRNSLKELWLVIHGRVYDVTRFLNEHPGGEEVLLQAGVDASESFE
DVGHSSDAREMLKQYYIGDIHPSDLKPESGSKDPSKNDTCKSCWAYWILPIIGAVLLGFLYRYTSESKSS

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FIGURE 4555

CACACACCCCTACAATCCCCTCCCCAGCCCCGAGAGACTTTTCTTGACTTCCACCAGTTGCTCCGGCGGGTGAG
AGTGGAGAGGCCCCCTCCTTCATCCCCCAGGCTCCCTCCCTTCCTGGAGCTGCAGCCTCAGCATCCTCCGCCCAGC
ACCCAGGATTACAGGCGTTGGGTCCCGCCCTTGTTAGGCTGTCCACCTCAAACGGGCCGGACAGGATATATAAGAG
AGAATGCACCGTGCACCTACACACGCGACTCCACAAAGTTGCAGCCGGAGCCGCCAGCTCACCAGAGCCTAGT
TCCGGCCAGGGTCGCCCCGGCAACCACGAGCCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGGTCGGCA
GAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGG
CTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTTCAATCCCATCATTTCAGAA
AGGACATCACAGGTAAACTGAAGGACCCTGCGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAG
GCCATCTGAGCCAGATATTGTGGCTGAACAAAAGAGCTGGAAGCCGAGACCTTGTGATATTCCAGAGTAAGA
AGGCAGTGCTTTCCATCACCCTGGTGGCAGTGGCTCCATGTACTCTCTGCAAGGGATCCACGGGGACATGAATG
TCATTCTCTGGCAATTACAGAGTGGCATTCTGCATTCTGTGGCTTCCAAGTCTTAGAACCTCAACTGACATATA
GCATTGGGCACACTCCAGCAGACGCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAGAATATTGGG
ATGAGACACCACTGTATTTTGCTCCAAGCAGCCTCTTTGACCTAACTTCCAGGCAGGATTCTTAATGAAAAAAG
AGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATCACTTGGGCAAGTCCATCCCAACTG
ACAACCAGATCAAAGCTAGAAAAAGAGATTCCCTAGCCTGGATTTCCCTTCTAACATGTTATCAAATCTGGGTATC
TTTCCAGGCTTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTCTTTTTTCCACAAGGAATAAATGAGAGGG
AATCGACTGTATTTCGTGCATTTTGGATCATTTTTAACTGATTCTTATGATTACTATCATGGCATATAACCAAAA
TCCGACTGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAGAAAAATGTTCTTTAAAGGCATCTAC
ACAATTTAATTCCTCTTTTTTAGGGCTAAAGTTTTAGGGTACAGTTGGCTAGGTATCATTCAACTCTCCAATGTT
CTATTAATCACCTCTCTGTAGTTTATGGCAGAAGGGAATTGCTCAGAGAAGGAAAAGACTGAATCTACCTGCCCT
AAGGGACTTAACTTGTTTGGTAGTTAGCCATCTAATGCTTGTTTATGATATTTCTTGCTTTCAATTACAAAGCAG
TTACTAATATGCCTAGCACAAAGTACCACTCTTGCTCAGCTTTTGTGTTTATATACAGTACACAGATACCTTGAA
AGGAAGAGCTAATAAATCTCTTCTTTGCTGCAGTCATCTACTTTTTTTTAAATTAAAAAAATTTTTTTTGAAG
CAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCAGGTTT
CAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATGACAGGCGCCTGCCATCATGCCTGACTAATTTTTGT
ATTTTTAGTAGAGACGGCGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCTGC
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGA

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FIGURE 4556

CTCTCACGCAGCCAACATGGCTCCAGTGGAGCACGTTGTGGCGGATGCTGGGGCTTTCCTGCGGCATGCGGCTCT
GCAGGACATCGGGAAGAACATTACACCATCCGGGAGGTGGTCACTGAGATTTCGGGACAAGGCCACACGCAGGCG
GCTCGCTGTCTGCCCTACGAGCTGCGGTTCAAGGAGCCCTTACCGGAATACGTGCGGCTGGTGACTGAGTTTTC
AAAGAAAACAGGAGACTACCCAGCCTCTCTGCCACGGACATCCAAGTGCTTGCACTCACATACCAGTTGGAAGC
AGAGTTTGTGGGGTGTCTCACCTAAAACAAGAACCACAGAAGGTTAAGGTGAGCTCATCGATTACGACCCAGA
AACACCTCTGCACATTTCTGGTTTCCATCTGCCCTACAAGCCTAAACCCCCACAAGAAACAGAAAAAGGACACTC
AGCTTGTGAGCCTGAGAACCTGGAATTTAGTTCCCTTCATGTTCTGGAGAAACCCCTTGCCCAACATCGATCATGA
ACTGCAGGAGCTGCTGATTGACAGAGGTGAGGACGTTCCAAGTGAGGAGGAGGAGGAGGAAGAAAACGGGTTTGA
AGACAGAAAAGATGACAGCGATGACGACGGGGGTGGCTGGATAACCCCCAGTAACATCAAGCAGATCCAGCAGGA
GCTGGAGCAGTGTGACGTCCCGAGGACGTGCGGGTTGGCTGCCTGACCACAGACTTCGCCATGCAGAATGTTCT
GCTGCAGATGGGGCTGCACGTGCTGGCGGTGAACGGCATGCTGATTTCGTGAGGCCCGGAGCTACATCTTGCGCTG
CCATGGCTGTTTCAAGACAACGTCTGACATGAGCCGAGTGTTCGTCTCAGCTGTGGGAACAAGACCCTGAAGAA
AGTGTCCGTGACCGTCAGCGACGACGGCACCTGCACATGCACTTCTCCCGCAACCCCAAGGTGCTGAACCCCG
CGGCCTCCGGTACTCGCTTCCCACTCCCAAAGGGGGCAAATACGCCATCAACCCCATCTCACCAGGATCAGCG
CTTCCCTCAGCTGCGACTCTCCAAAAGGCCAGGCAGAAAACCAACGTGTTCCGCCCTGACTACATCGCCGGGGT
GTCACCCTTTGTGCGAGAATGACATCTCCAGCCGCTCAGCTACCCTGCAGGTCCGGGACAGCACCTGGGAGCTGG
GCGGAGACGCTTAAATCCCAACGCTTCCAGAAAGAAGTTTGTGAAGAAAAGGTGAAGAGCGAGTTCCCGCAGGCA
AATTGGATGGGCGTCTGGCCGCCGTGGAGTTCGGGTGACCCATTTCGCCAGCCGTGTCGTCTCCAGGACCACCCG
ATGGAATAACAGGCGGGCTTACGGTGGCGCTCTGTCCGCCATGCCCCGCTGGGTCTGCAGGGAAGTGGACTG
TCCCATGGCCTGTGAGCACCGGAGCGCCTGGCTGCCTGCCAAGGAAGTGCAATTGCATAAAAACAGAAAGAACAA
CGCCCTGGAGCCAATCTTCAAGAAAGGAATTTCCAAAGGATAATATTTTTCTAATAAATGCGGCTGCAACCTCCT
GTGCAATTAATTAATAGGCCAAATTTTTGTGCTTAGGTCACTCAAGGCTGATACTTGAGCTGTGTGCCCAGA
GATCATGCATTTAGATTTATATTTTTGCCAGAAAATACAAGGTTATAATAAACTAAGAACTACCAAAAAAAAAA
AAAAAAA

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FIGURE 4557

MAPVEHVADAGAFRLRHAALQDIGKNIYTIREVVTETIRDKATRRRLAVLPYELRFKEPLPEYVRLVTEFSKKTGD
YPSLSATDIQVLALTYQLEAEFVGVSHLKQEPQKVSVSSSIQHPETPLHISGFHLPYKPKPPQETEKGHSACEPE
NLEFSSFMFWRNPLPNIDHELQELLIDRGEDVPSEEEEEENGFEEDRKDDSDDDGGGWITPSNIKQIQELEDQCD
VPEDVRVGCLTTDFAMQNVLLQMGLHVLAVNGMLIREARSYILRCHGCFKTTSDMSRVFCSHCGNKTLKKVSVTV
SDDGTLHMHFSRNPVKVLNPRGLRYSLPTPKGGKYAINPHLTEDQRFQRLRSQKARQKTNVFAPDYIAGVSPFVE
NDISSRSATLQVRDSTLGAGRRRLNPNASRKKFVKKR

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FIGURE 4558

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAGAAGTCC
AGGTTAGAGGGAAGTGGGAGGCACCTTTGCTGCTTCAATCGAAGTTGAGGGTGCAAAAATGCAGAGTAATAAAC
TTTTAAGTTGGAGAAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAACAGCTGCAGCC
GCCACCACCGCCAATACCTGCAAATGGGCAACAGGCCAGCAGCCAAAATGAAGGCTTTGACTATTTGGCCTGAAG
AATTTTAGAAAAACCAGGAGAGAAGACCTTCACCCAACGAAGCCGCTTTTTTGTTGGGAAATCTTCTCCCGACATC
ACTGAGGAAGAAATGAGGAACTATTTGAGAAATATGGAAAGGCAGGCGAAGTCTTCATTTCATAAGGATTAAGGA
TTTGGCTTTATCCGCTTGGAACACGAACCCTAGCGGAGATTGCGAAAGTGGAGCTGGACAATATGCCACTCTGT
GGAAAGCAGCTGCGTGTGCGCTTTTCTGCCATAGTGCATCCCTTACAGTTTCGAAACCTTCCTCAGTATGTGTCC
AACGAAGTGTGGAAGAAGCCTTTTCTGTGTTTGGCCAGGTAGAGAGGGCTGTAGTCATTGTGGATGATCGAGGA
AGGCCCTCAGGAAAAGGCATTGTTGAGTTCTCAGGGAAGCCAGCTGCTGGGAAAGCTCTGGACAGACGCAGTGAA
GGCTCCTTCTGCTAACCACATTTCTCGTCTGTGACTATGGAGCCCATGGACCAGTTAGATGATGAAGGGGA
CTTCAGAGAAGCTGGTTATAAAAAACCAGCAATTTACAAGGAACGAGAGCAACCACCCAGATTTGCACAGCCT
GGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACCTCATTGAGATGGAGAAGCAGCAGCAGGACCAAGTG
GACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACCAGGTCATG
CTAATGAGACAGAATTTGATGAGGCGCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAGAGGTGCAA
AAACGAAAGCAACTGGAGCTCAGGCAGGAGGAAGAGCGCAGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAA
GAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACCTTCCCTGATGTGAGAGAGCAGGAGATTGGATGGGT
CAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGAGGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACC
CCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGAACCTTTGGGATTGACCCCAACCAACTGAACGCTTT
GGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGA
GCTGAATTTGCTCCAAACAAACGTCGCCGATACATAAAGTTGCAAGTGTCTAGTTTCTCAAAACCTTAAAGAA
GGACCCTTTTTGACCAGCCAGAATTCTACCCTGGAAAAGTGTAGGGATTCCCTCCAATAGTTAGATCTACCT
GCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGACAAGGGAGGGTGGTATTAAACAAGTCAATTCTATGT
AGTATATTATTTAATCAGTTCTGTGTGGTGCATTCTGAAGTCTCAAATGTGATTGTTGAGGGCTGGGGAACC
ATGGCAAAGTAGATCCAGTTAGAGCCCATTAATCTTGATCATTCTGTTTTTTTGGTTTGTGTTGTTTTTTT
TTTTTTTTTTTTGTCCATCTTGTTTCATTTGCTTGCCCTGCCCCGAGATGGAGTCTTACTCTGTGCCCCAGGCT
GGAGTGTAGTGGCACGATCTCGGCTCAGTGAATCTCTGCCTCTCGGGTTCAAGCTTGTCAGGCTGATCTTGAA
CTCCTGACCTCGTGATCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCT
CACTTGCTTTCTTATCCTTACACTCCCCAGTCCCAGAGAACTGCCACATACACCACAAAACCAACATCCCC
CAATGACCTTAGCCGATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAA
CGTACATACGGTTCTATTATATCCCATATATTACCCCTTCATGTCTTAAAGAAGACATTTCTCTTAGAGATTT
CATTTTAGTATATCTTTAAAAAAAATCTTGTTAACTTGCCCTCCATCTTTTTCTTGGGTGAGGACACCCAGGA
ATGACCCTTTTGTGTCTATGATACTGCTGTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGT
TACTGTATACTGAAGGTCTGACAGTAGCTCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCCCTTTTTTCC
ATTGGTGTATGTATTTGATTGTCTCTGATATATTTGGAGTTTTTCTGAGAACTGGAGCAGTAATGCAGCATCG
ACCTATTAATAACATTTTAAGCCTTT

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FIGURE 4559

MPLCGKQLRVRFSCHSASLTVRNLPQYVSNEVLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAAGKALD
RRSEGSFLLTTFPRPVIMEPMDQLDDEGGLPEKLVKNQQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQ
QDQVDRNIKEAREKPEMEMEAARHKHQVMLMRQNLRRQEELRRMEELHNQEVQKRKQLELRQEEERRRPEEEMR
RQQEEMMQPQQEGFKGTFPDVREQEIWMGQMAMGGAMGINSRGALTPAPVPAGTPAPPGPATMMPDGTGLGLTPPT
TERFGQAATMEGIGAIGETPPAFNHAAPGAEFAPNKRRRY

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FIGURE 4560

GCAGTGAAGGCTCCTTCCTGCTAACCACATTTCTCGTCTGTGACTATGGAGCCCATGGACCAGTTAGATGATG
AAGGGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTCAACAAGGAACGAGAGCAACCACCCAGATTG
CACAGCCTGGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGG
ACCAAGTGGACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACC
AGGTCATGCTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAG
AGGTGCAAAACGAAAGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAACCTCTGACCTCGT
GATCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTTCTT
ATCCTTACACTCCCCCAGTCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCCCAATGACCTTAGC
CGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAACGTACATACGGTT
CTATTATATCCCATATATTACCCCTTCATGTCCTA

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FIGURE 4561

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAAGAGCGC
AGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAAGAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACC
TTCCCTGATGTGAGAGAGCAGGAGATTTGGATGGGTCAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGA
GGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACCCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGA
ACTTTGGGATTGACCCCACTGAACGCTTTGGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGT
GAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGAGCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAA
GTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAAGGACCCTTTTGGACCAGCCAGAATTCTACCCTGGAAAA
GTGTTAGGGATTCCCTCCAATAGTTAGATCTACCCTGCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGAC
AAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGTAGTA

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FIGURE 4562

AGTGGTGTCCGCAAAGCCCAAGGTGCATAATCGTCAACCTCGAATTAACCTCTACGTGGAGGTGGCGGTGGATGG
ACTCCCCAGTGAGACCAAGAAGACTGGGAAGCGCATTGGGAGCTCTGAGCTTCTCTGGAATGAGATCATCATTTT
GAATGTCACGGCACAGAGTCATTTAGATTTAAAGGTCTGGAGCTGCCATACCTTGAGAAATGAACCTGCTAGGCAC
CGCATCTGTCAACCTCTCCAACGTCTTGAAGAACAATGGGGGCAAAATGGAGAACATGCAGCTGACCCTGAACCT
GCAGACGGAGAACAAGGCAGCGTTGTCTCAGGCGGAGAGCTGACAATTTTCTGGACGGGCCAACTGTTGATCT
GGGAAATGTGCTTAATGGCAGTGCCCTGACAGATGGATCAGCTGCCTTCGAGAGACTCCAGTGGAACAGCAGT
AGCTCCAGAGAACCAGCCAGCCCCCAGCACAACCTGCTTTGGTGGAAGATCCCGGACGCACAGACATTCGGG
TGCTTCAGCCAGAACAACCCAGCAACCGGCGAGCAAAGCCCCGGTGCTCGGAGCCGGCACCGCCAGCCCGTCAA
GAACCTCAGGCCACAGTGGCTTGCCCAATGGCACAGTGAATGATGAACCCACAACAGCCACTGATCCCGAAGAACC
TTCCGTTGTGGTGTGACGTCCCACTGCTGCACCTTGAGTGTGACCCCGAATCCCAACACGACTTCTCTCCC
TGCCCCAGCCACACCGGTGAAGGAGAGGAACCCAGCACTTCGGGTACACAGCAGCTCCAGCGGTGCCAGGC
CCCCGACGCTCTGCCTGTGATGGGAACAGCGAGAGCTGCCCAACGGACGTGTCTATTATGTTGACCACAATAC
CAAGACCACCACTGGGAGCGCCCCCTTCTCCAGGCTGGGAAAACGCACAGATCCCGAGGCAGGTTTTACTA
TGTGGATCACAATACTCGGACCACCACTGGCAGCGTCCGACCGCGGAGTACGTGCGCAACTATGACAGTGGCA
GTCGCAGCGGAATCAGCTCCAGGGGGCCATGCAGCACTTCAGCCAAGATTCTCTACCAGTCTTCGAGTGCTTC
GACTGACCATGATCCCCTGGGCCCCCTCCCTCTGGCTGGGAGAAGAGACAGGACAATGGACGGGTGATTACGT
GAACCATAACACTCGCACGACCCAGTGGGAGGATCCCGGACCCAGGGGATGATCCAGGAACAGCTCTGCCCCC
AGGATGGGAGATGAAATACACCAGCGAGGGGTGCGATACCTTGTGGACCACAATACCCGCACCACCACTTTAA
GGATCCTCGCCCGGGGTTTGAGTCGGGGACGAAGCAAGGTTCCCTGGTGCTTATGACCGCAGTTTTCGGTGGAA
GTATCACCAGTTCGGTTTCTCTGCCATTCAAATGCCCTACCTAGCCACGTGAAGATCAGCGTTTTCCAGGCAGAC
GCTTTTCGAAGATTCTTCCAACAGATCATGAACATGAAACCTATGACCTGCGCCGCCGGCTCTACATCATCAT
GCGTGGCGAGGAGGGCCTGGACTATGGGGGCATCGCCAGAGAGTGGTTTTTCCTCTGTCTCATGAGGTGCTCAA
CCCTATGTATTGTTTATTGAAATATGCCGGAAGAACAATTACTGCCTGCAGATCAACCCCGCTCTCCATCAA
CCCGGACCACCTCACCTACTTTGCTTTATAGGCAGATTCAATCGCCATGGCGCTGTACCATGGAAAGTTTCATCGA
CACGGGCTTACCCTCCCTTTCTACAAGCGGATGCTCAATAAGAGACCAACCTGAAAGACCTGGAGTCCATTGA
CCCTGAGTTCTACAACCTCCATTGTCTGGATCAAAGAGAACAACCTGGAAGAATGTGGCCTGGAGCTGTACTTCAT
CCAGGACATGGAGATACTGGGCAAGGTGACGACCCACGAGCTGAAGGAGGGCGGCGAGAGCATCCGGGTACAGA
GGAGAACAAAGGAAGGTACATCATGCTGCTGACTGACTGGCGTTTACCCGAGGCGTGGAAGAGCAGACCAAAGC
CTTCTGATGGCTTCAACGAGGTGGCCCCGCTGGAGTGGCTGCGCTACTTTGACGAGAAAGAGCTGGAGCTGAT
GCTGTGCGGCATGCAGGAGATAGACATGAGCGACTGGCAGAAGAGCACCATCTACCGGCACTACACCAAGAACAG
CAAGCAGATCCAGTGGTTCTGGCAGGTGGTGAAGGAGATGGACAACGAGAAGAGGATCCGGCTGCTGCAGTTTGT
CACCGGTACCTGCCGCTGCCGCTCGGGGGATTGCGGAACCTCATCGGTAGCAACGGACCACAGAAGTTTTGCAT
TGACAAAGTTGGCAAGGAAACCTGGCTGCCAGAAGCCACACCTGCTTCAACCGTCTGGATCTTCCACCCTACAA
GAGCTACGAACAGCTGAGAGAGAAGCTGCTGTATGCCATTGAGGAGACCGAGGGCTTTGGACAGGAGTAACCGAG
GCCGCCCTCCACGCCCCCAGCGCACATGTAGTCTGAGTCTCCCTGCCCTGAGAGGCCACTGGCCCCGAGC
CCTTGGGAGGCCCCGTGGATGTGGCCCTGTGTGGGACCACACTGTCTATCTCGCTGCTGGCAGAAAAGCCTGATC
CCAGGAGGCCCTGCAGTTCCCCGACCCGCGGATGGCAGTCTGGAATAAAGCCCCCTAGTTGCCTTTGGCCCCAC
CTTTGCAAAGTTCCAGAGGGCTGACCCTCTCTGCAAACTCTCCCCTGTCTCTAGACCCACCTGGGTGTATG
TGAGTGTGCAAGGGAAGGTGTTGCATCCCCAGGGGCTGCCGAGAGGCCGAGACCTCCTGGACTAGTTTCGGCGA
GGAGACTGGCCACTGGGGGTGGCTGTTTCGGGACTGAGAGCGCCAAGGGTCTTTGCCAGCAAAGGAGGTTCTGCCT
GTAATTGAGCCTCTCTGATGATGGAGATGAAGTGAAGGTCTGAGGGAGCGGGCCCTGGGGCGAGGCCATCTCTGC
CTGCTCCCTAGCAGCGCCAGCGGTGGAGGCTGAGTCGAGGACACATGCCGGCCAGTTAATTCTCTCAGCC
AATGAAGGTTTGTCTAAGCTGCCTGGGTATCCACGGGACAAAACAGCAAACCTCCCTCAGACTTTGTCCATGTAT
AACTTGAAGTGGTTGTGTTGTAGGGTTCAGGTTTTTTGTACGCTGCTGTCACTTCTGTC

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FIGURE 4563

MASASSSRAGVALPFEKSQLTLKVVSAPKPKVHNROPRINSYVEVAVDGLPSETKKTGKRIGSSELLWNEIIILNV
TAQSHLDLKVWSCHTLRNELLGTASVNLNVLKNNGGKMENMQTLNLQTENKGSVVSGGELTIFLDGPTVDLGN
VPNGSALTDGSQLP SRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRHRQPVKNS
GHSGLANGTVNDEPTTATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPD
ALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYVDHNTRTTTWQRPTAEYVRNIEQWQSQ
RNQLQGAMQHFSQRFLYQSSSASTDHDPLGPLPPGWEKRDNGRVYYVNHNTTQWEDPRTQGMIEPALPPGW
EMKYTSEGVRYFVDHNTRTTTFKDRPGFESGTKQSGPAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLF
EDSFQQIMNMKPYDLRRRLYIIMRGEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPD
HLTYFRFIGRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIKENNLEECGLELYFIQD
MEILGKVTHELKEGGESIRVTEENKEEYIMLLTDWRFTRGVEEQTKAFLDGFNEVAPLEWLRYFDEKELEMLC
GMQEIDMSDWQKSTIYRHYTKNSKQIQWFWQVKEMDNEKRIRLLQFVTGTCRLPVGGFAELIGSNGPQKFCIDK
VGKETWLP RSHTCFNRLLDPPYKSYEQLREKLLYAIEETEGFGQE

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FIGURE 4564

GGTACAGCTGCGCGTCTGCGGGAATAGGTGCAGCGGGCCCTTGGCGGGGACTCTGAGGGAGGAGCTGGGGACGG
CGACCCTAGGAGAGTTCTTTGGGGTGACTTTCAAGATGGACTCTACTCTAACAGCAAGTGAAATCCGGCAGCGAT
TTATAGATTTCTTCAAGAGGAACGAGCATACGTATGTTCACTCGTCTGCCACCATCCCATTTGGATGACCCCACTT
TGCTCTTTGCCAATGCAGGCATGAACCAGTTTAAACCCATTTTCTGAAACACAATTGACCCATCTCACCACATGG
CAAAGCTGAGCAGAGCTGCCAATACCCAGAAGTGCATCCGGGCTGGGGGCAAACAAAATGACCTGGACGATGTGG
GCAAGGATGTCTATCATCACACCTTCTTCGAGATGCTGGGCTCTTGGTCTTTTGAGATTACTTTAAGGAATTGG
CATGTAAGATGGCTCTGGAACTCCTCACCAGAGTTTGGCATTCCCATTTGAAAGACTTTATGTTACTTTACTTTG
GCGGGGATGAAGCAGCTGGCTTAGAAGCAGATCTGGAATGCAAACAGATCTGGCAAATTTGGGGCTGGATGACA
CCAAATCCTCCCAGGCAACATGAAGGATAACTTCTGGGAGATGGGTGACACGGGCCCTGTGGTCTTGCAGTG
AGATCCACTACGACCGGATTGGTGGTCCGGACGCCGACATCTTGTCACACAGGACGACCCATATGTCTGGAGA
TCTGGAACCTTGTGTTTATCCAGTATAACAGGGAAGCTGATGGCATTCTGAAACCTTCTCCCAAGAAAAGCATTG
ACACAGGGATGGGCTTGAACGACTGGTATCTGTCTGCAGAAATAAGATGTCCAATATGACACTGACCTTTTGT
TCCCTTACTTTGAAGCCATTGAGAAGGGCACAGGTGCCCCAGCCATACACTGGGAAAGTTGGTGTCTGAGGATGCCG
ATGGGATTGACATGGCCTACCGGGTGTGGCTGACCATGCTCGGACCATCACTGTGGCACTGGCTGATGGTGGCC
GGCCTGACAACACAGGGCGTGGATATGTGTTGAGACGGATTCTCCGCCGAGCTGTCCGATACGCCCATGAAAAGC
TCAATGCCAGCAGGGGCTTCTTTGCTACGTTAGTGGATGTTGTCTGCCAGTCCCTGGGAGATGCATTTCTTGAGC
TGAAGAAGGACCCAGACATGGTGAAGGACATCATTAAATGAAGAAGAGGTGCAGTTTCTCAAGACTCTCAGCAGAG
GGCGTCGCATCCTGGACAGGAAAATTCAGAGCCTGGGAGACAGCAAGACCATTCCCGGAGACACTGCTTGGCTCC
TCTATGACACCTATGGGTTTCCAGTGGATCTGACTGGACTGATTGCTGAAGAGAAGGGCCTGGTGGTAGACATGG
ATGGCTTTGAAGAGGAGAGGAACTGGCCCAGCTGAAATCACAGGGCAAGGGAGCTGGTGGGGAAGACCTCATT
TGCTGGACATTTACGCTATCGAAGAGCTCCGGGCACGGGGTCTGGAGGTACAGATGATTCCCCAAAGTACAATT
ACCATTTGGACTCCAGTGGTAGCTATGTATTTGAGAACACAGTGGCTACGGTGTATGGCTCTGCGCAGGGAGAAGA
TGTTCTGTGAAGAGGTGTCCACAGGCCAGGAGTGTGGAGTGGTGTGGACAAGACCTGTTTCTATGCTGAGCAAG
GAGGCCAGATCTATGACGAAGGCTACCTGGTGAAGGTGGATGACAGCAGTGAAGATAAAACAGAGTTTACAGTGA
AGAATGCTCAGTCCGAGGAGGGTATGTGCTACACATTGGAACCATCTACGGTGACCTGAAAGTGGGGGATCAGG
TCTGGCTGTTTTATTGATGAGCCCCGACGAAGACCCATCATGAGCAACCACACAGCTACGCACATTCTGAACTTCG
CCCTGCGCTCAGTGTCTGGGGAAGCTGACCAGAAAGGCTCATTGGTTGCTCTTGACCGCTCAGATTTGACTTTA
CTGCCAAGGGAGCCATGTCCACCCACAGATCAAGAAGGCTGAAGAGATTGCTAATGAGATGATTGAGGCAGCCA
AGGCCGTCTATACCCAGGATTGCCCCCTGGCAGCAGCGAAAGCCATCCAGGGCCTACGGGCTGTGTTTGTGAGA
CCTATCCTGACCTGTGCGAGTCTGTCCATTGGGGTCCCGGTGTCCGAGTTGTGGATGACCCCTCTGGGCCTG
CTGGCTCCCTGACTTCTGTTGAGTTCTGTGGGGGAACGCACCTGCGGAACTCGAGTCATGCAGGAGCTTTTGTGA
TCGTGACGGAAGAAGCCATTGCCAAGGGTATCCGGAGGATTGTGGCTGTACAGGTGCCGAGGCCCAGAAGGGCC
TCAGGAAAGCAGAGAGCTTGAAGAAATGTCTCTGTGTCATGGAAGCCAAAGTGAAGGCTCAGACTGCTCCAAACA
AGGATGTGCAGAGGGAGATCGCTGACCTTGGAGAGGCCCTGGCCACTGCAGTCATCCCCCAGTGGCAGAAGGATG
AATTGCGGGAGACTCTCAAATCCCTAAAGAAGGTCTATGGATGACTTGGACCGAGCCAGCAAAGCCGATGTCCAGA
AACGAGTGTTAGAGAAGACGAAGCAGTTCATCGACAGCAACCCCAACAGCCTCTTGTCTCCTGGAGATGGAGA
GCGGCGCCTCAGCCAAGGCCCTGAATGAAGCCTTGAAGCTCTTCAAGATGCACTCCCTCAGACTTCTGCCATGC
TCTTCACGGTGGACAATGAGGCTGGCAAGATCACGTGCTGTGTCAAGTCCCCCAGAATGCAGCCAATCGGGGCT
TAAAGCCAGCGAGTGGGTGCAGCAGGTGTGAGGCTTGTGACGGTAAAGGTGGTGGCAAGGATGTGTCTGCAC
AGGCCACAGGCAAGAACGTTGGCTGCCTGCAGGAGGCGTGCAGCTGGCCACTTCTTCGCCCAGCTGCGCCTCG
GGGATGTAAAGAAGCTGAGTGGGGAAGGAGGAGGCTCCCACTGGATCCATCCGTCCAGCCAAGAGCTCTTCATCTG
CTACAAGAACATTTGAATCTTGGGACCTTTAAAGAGCCCTCCTAACCCAGCAGTAAGTGGAAACACACTTGGGAG
CAGTCCATATGTCTCAGTGGCCCTTAAATTTCTGCCCTGAGCCCTCCACGTGAGTCCATCGGTCTAGAACCCTA
ACCCCGCATGCTGTGATCGTCACGCTCGCATCTATAGATAACGGCTCTCCAGACCTGAGCTTTCCGCGTCAGC
AAGTAGGAATCGTTTTTGTCTGCAGAGAATAAAAGGACCACGTGC

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FIGURE 4565

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKC
IRAGGKQNDLDDVGKDVYHHTFFEMLGSWFSGDYFKELACKMALELLTQEFGIPIERLYVTYFGGDEAAGLEADL
ECKQIWQNLGLDDTKILPGNMKDNFEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRE
ADGILKPLPKKSIDTGMGLERLVSVLQNKMSNYDTDLFVPYFEAIQKGTGARPYTGKVGAEADADGIDMAYRVLAD
HARTITVALADGGRPDNTGRGYVLRILRRAVRYAHEKLNASRGFFATLVDVVQSLGDAFPELKKDPDMVKDII
NEEEVQFLKTLRGRILDRKIQSLGDSKTIPGDTAWLLYDTYGFVDTGLIAEEKGLVVDMDGFEEERKLAQL
KSQKGAGGEDLIMLDIYAIEELRARGLEVTDSPKYNHYLDSSGSYVFENTVATVMALRREKMFVEEVSTGQEC
GVVLDKTCFYAEQGGQIYDEGYLVKVDSSSEDKTEFTVKNAQVRGGYVLHIGTIYGLKVGQVWLFIDEPRRRP
IMSNHTATHILNFALRSVLGEADQKGSVLAPDRLRFDTAKGAMSTQIKKAEIANEMIEAAKAVYTQDCPLAA
AKAIQGLRAVFDETYDPVRVVSIGVPVSELLDDPSGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIKAGIR
RIVAVTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIQWQKDELRETLKSLKKV
MDDLDRASKADVQKRVLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFITVDNEAGKIT
CLCQVPQNAANRGLKASEWVQQVSGLMDGKGGGKDVSAQATGKNVGCLEALQLATSFAQLRLGDVKN

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FIGURE 4566

GTAGTGGGGCTGGAGCAGAGCCTGCCGGAACCCCCGGAGCCACGATCCCTCGTGCCATCCCTCGAATCCACCA
GCACGAGCGTCCCACCCGCGCCTGGGACCATGGCCACTGACTCATGGGCCCTGGCGGTGGACGAGCAGGAAGCTG
CGGCTGAGTCGTTGAGCAACTTGCACTCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGCTGTTGTCAAGA
CCAATGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAAGAGGACAGAGCTGCCAGTCCTTACTCAACAAGCTGA
TCAGAAGCAACCTTGTTGATAACACAAACCAAGTGGAACTCTGCAGCGGGATCCAACTCCCCTCTGTACTCGG
TGAAGTCTTTTGAAGAGCTTCGGCTGAAACCACAGCTTCTCCAAGGAGTCTATGCCATGGGTTTCAATCGTCCAT
CCAAGATACAAGAGAACGCATTGCCACTGATGCTTGCTGAGCCCCCACAGAACTTAATTGCCCAATCTCAGTCTG
GTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAACAAATACCCCCAGTGTC
TATGTCTCTCCCCAACGTATGAGCTCGCCCTCCAAACAGGAAAAGTGATTGAACAAATGGGCAAATTTTACCCTG
AACTGAAGCTAGCTTATGCTGTTTCGAGGCAATAAATTGGAAAGAGGGCCAGAAGATCAGTGAGCAGATTGTCATTG
GCACCCCTGGGACTGTGCTGGACTGGTGCTCCAAGCTCAAGTTCATTGATCCCAAGAAAATCAAGGTGTTTGTTTC
TGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCATCCAGAGGATGCTGCCCA
GGAAGTCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTTGCCAGAAAGTGGTCCCAG
ACCCAAACGTTATCAAACCTGAAGCGTGAGGAAGAGACCCTGGACACCATCAAGCAGTACTATGTCTGTGCAGCA
GCAGAGACGAGAAGTTCCAGGCCTTGTTGAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCC
ATACTCGCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGG
AGATGATGGTGGAACAGAGGGCTGCAGTGATTGAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTGGTGACCACCA
ACGTGTGTGCCCCGCGGCATTGATGTTGAACAAGTGTCTGTGTCATCAACTTTGATCTTCCCGTGGACAAGGACG
GGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCTGGCAGTGA
ACATGGTGGACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAGAT
TGGACACAGATGATTTGGACGAGATTGAGAAAATAGCCAACTGAGAAGCTCCACCAGCCACTGATGCCAGCCCTG
GCACTGCCCTGCACAGGAGACAAGTGCGTTCAGGGCACAGGCCCGACATCACCCCAAGGACAACGGCACAAAGT
AGAGAGAAACTACCTACCTCACTTCAAATTATGTTTGGACTTGACAAAATGTATGCAAATGATGGGGGATGGTA
GAAAAAAATTATTTACACAACCTTGGAAGATTAGGCATGAATACACAGAGATTACCTTTTGAAAAA
AAAAAA

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FIGURE 4567

MATDSWALAVDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANAECTDEEEKEDRAAQSLNKLIRSNLVDNTN
QVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPQNLIAQSQSGTGKTAAFVL
AMLSQVEPANKYPQCLCLSPITYELALQTGKVIEQMKGFPYELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWC
SKLKFIDPKKIKVFVLDEADVMIATQGHQDQSIRIQRMPLPRNCQMLLFSATFEDSVWKFAQKVVPDPNVIKRE
EETLDTIKQYYVLCSSRDEKFQALCNLYGAIITIAQAMIFCHTRKTASWLAELSKEGHQVALLSGEMMVEQRAAV
IERFREGKEKVLVTTNVCARGIDVEQVSVINFDLPVDKGNPDNETYLHRIGRTGRFGKRGGLAVNMVDSKHSMN
ILNRIQEHFNKKIERLDTDDLDEIEKIAN

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FIGURE 4568

GTACTATCCTCCTTACTTTTGGGTCGGGCCCTCCGGGAAGATGGCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACCACTGATAA
TGGTGTGGGTCCTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGGAAGACCCATACCCACACAAGTTCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAAATCCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGGTGAGCTGAGCATCATTCCGTATGAGATCACACTGCTGTCTCCCTGTTTGCATAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCACATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCTAGAGATTGAACTCCCATGATGAACATCATCCCAGGGGGAGCCGTGGCCAAAGCCTTTTCATCACTTATCA
CAACGAGCTGGACATGAACCTATATAAGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGATTGATTTGACGCACAATCCTGAGTTCACCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCCACCCCTTCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAACTGAAGAACTCGCAAAATTTCTTGATGATATCTGTGTGGCAAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTGGGGAGTTTCTGGAAGTGACTTGCAATCAATCCTACATTCTAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTGATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAGAACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTTCATAGATGAAAACCTTCTGTACTGCCCT
GGAATATGGGCTGCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAGCACAAACAGTTGGCATTCTGTCTAGAAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGGAATTTCTGTGTGCTGCTTTCCATTTGACACCCGAGTTCTGTTTCAGC
CATCAGAAGAGAGACAAGGAATTAATAATTTCTTTTTAATCCTGTTA

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FIGURE 4569

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQ
YYKIRSQAIHQKLVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGDKKET
RYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMNIIIPGGAVAKPFITYHNELDMNLYMRIAP
ELYHKMLVVGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMOVSGMVKHITGSYKVITYHP
DGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGE
FLEVTCINPTFICDHPQIMSPKAWHRSKEGLTERFELFVMKKEICNAYTELNDPMRQQLFEEQAKAKAAGDDE
AMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSV

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FIGURE 4570

AAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTCAGGGGTGCAGCAGCCGCTCTGAGGGGGTGGGAGGTGGCCGC
TGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTC
TGCGGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAAACAGCAAAACACCATTGAAAGTAAGATG
GTCACCTCTCCACCGAATGGGTCCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACC
TTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCGTCAGCTTGACCTGGCCAAGAACCCTCTATCAG
GCCATTGAGAGAGCTGATGACATCTTGGACCTGAAGTTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAA
GATTATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCTGGACAAGTCGGTTCATTGAGCTCAGCCGACAG
GGCAAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTG
GCAGAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCCTG
CTGGGTTTGATGAGGAGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAG
AATCTGCTCATGGTGTGTTGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTCAGATACACTTACTCTT
CTGTTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTC
TATACCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAA
AGGGACTACCACCAGCAGTTCCGGCATGTTCAAGAACAACCTGATGAGAAATTCTACAACAGAAAAATCGAACCA
AGAGAACTGGACCCCATCTGACTGAGGTACCCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCTCAAG
AAGAGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGCCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGT
CTGGACAAACTCCTCAATAACTGCCTTTTGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAG
GAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGC
ATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTC
TGTGCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATG
GGCTTTCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTC
CAGCAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGCTGACTCTGAAC
AACGTGGAAGTCTGCAGTGAAAACATCTCCACTCTGAAGAAGACACTGGAGAGTGAATGCACCAAGCTCTTCAGC
CAGGGCATTGGAGGGGAGCAGGCCAGGCCAAGTTTGACAGCTGCCTTTCTGACTTGGCCGCCGTGTCCAACAAA
TTCCGAGACCTCTTGCAAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCCTTGGATC
AACAGCTTTTTCTCCGTCTCCCAACAATCGAGGAGGAAGAATTCAATGACTATGAGGCCAACGACCCTTGGGTA
CAACAGTTTCATCCTTAACCTGGAGCAGCAAATGGCAGAGTTCAAGGCCAGCCTGTCCCCGGTCATCTACGACAGC
CTAACCGGCCTCATGACTAGCCTTGTGCGGCTCGAGTTGGAGAAAGTGGTGTGAAATCCACCTTTAACCGGCTG
GGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTGCCTACCTTACCACGGTGACCACCTGGACCATCCGA
GACAAGTTTGCCCGGCTCTCCAGATGGCCACCATCTCAATCTGGAGCGGGTGACCGAGATCCTCGATTACTGG
GGACCCAATTCCGGCCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGCGCCAGGTGCTGGCCCTGCGGATAGAC
TTCCGCAGTGAAGATATCAAGAGGCTGCGCCTGTAGCTGCCTGGATGAGCACACCTGGCTCATCACACTTGCAGG
CCTGTTCCCTAAGGGGCCCCAGCCAAGGAGCTGAGCGAGGCTGTCTGGCTTGGGGGAGATCTGACAGCCCAGACC
TTTCTACGGCTGGCAGCAGAGAAACAAAGTCTGGACCCACTCCATGCTCTGCCCTCAGACCTGGCCAGGTGATGC
TCTGGGGGAGCATCTCCCCACCGAGAGAAGCGGGCTCCTAATGAGGTGGGAAAGCCACGGCAGGCAGCGAGCAG
CCCAGGCCAGCTTTCTGCATGGATGGTCAGTCTCTTGCCCTCAAACACTACAGCAAACAAGCTACCCCTGCCAGT
CCTAGACAACCTTGGGTACATCTGGGGACCTAGCAGTTAGGCTTGACTTTGAGGAGAGGCTGTGATGTTTATGATC
CCTGAATAAAGCTACTCCTTGGAGAGATGCCAGTGTGCTGTTACCAGGGAGGGCCAGATGCTATGGGGC

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[illegible]

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FIGURE 4572

MCEGPSRISGPIPPDPTLCPDNYRRPTSAQGRLEGNAKLDLLTSDRALDTTAPRGPCIGPGAGEILERGQRGVG
DVLLQLEGISLGPASLKRKDPKDHEKENLRRIREIQKRFREQERSREQGQPRPLKALWRSPKYDKVESRVKAQL
QEPGPASGTESAHLRAHSRCGPGLPPPHVSSPQPTPPGPEAKEPGLGVDFIRHNARAARKRAPRRHSCSLQVLAQ
VLEQQRQAQEHYNATQKGVPHYLLERRDLWRREAEARKQSQPDAMPFGHTRMPENQRLETTLKLLQSQSQLLR
ELVLLPAGADSLRAQSHRAELDRKLVQVEEAIKIFSRPKVFVKMDD

[illegible]

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FIGURE 4574

MKMLPGVDVFGTGSSARVLVPLLRAEGFTVEALWGKTEEEAKQLAEEMNIAFYTSRTDDILLHQDVDLVCISIPP
PLTRQISVKALGIGKNVCEKAATSVD AFRMVTASRYYPQLMSLVGNVLRFLPAFVRMKQLISEHYVGAVMICDA
RIYSGSLLSPSYGWICDELMGGGGLHTMGTYIVDLLTHLTGRRAEKVHGLLKTFVRQNAAIRGIRHVTSDDFCFF
QMLMGGGVCSTVTLNFMFGAFVHEVMVVGSA GRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQDVP
LLYLKGMVYMQALRQSFQGGDRRTWDRTPVSMAASFEDGLYMQSVVDAIKRSSRSGEWEAVEVLTEEPDTNQ
LCEALQRNNL

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FIGURE 4575

GGAAGGGACAGTCGGCCGCAGACCGCGCTGGGTTGCCGCTGCCGCTGCCGCCATCGTGCCAGCCCCCTCGGGTCTC
CGTGAGGCCGGGTGACGCTCCAGAAATGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCAACAT
TACTACCAGTTATTTGATAATGATAGAACCCAACTAGGCGCAATTTACATTGACGCGTCATGCCTTACGTGGGAA
GGACAACAGTTCCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTAGCCTTCCGTTCCAGAAAATTCAGCACAGC
ATCACCGCGCAGGACCATCAGCCCACTCCAGATAGCTGCATCATCAGCATGGTTGTGGGCCAGCTTAAGGCGGAT
GAAGACCCCATCATGGGGTTCCACCAGATGTTCCCTATTAAAGAACATCAACGATGCTTGGGTTTGACCAATGAC
ATGTTTCAGGCTCGCCCTGCACAACTTTGGCTGACCTCCTCTCAGCTAGGCACTCACGCTGTTTCCCTCCCTCC
TCTTCCCAATACTATTCCCACTCCTCCAGATGCTCCAAATATCATGCACAAATGAGCAGGGCCGCGGTGGGAGTG
GGCGCAGTGCCTGCTGCCACTGAGGTGTTGTGCATGATGTTTGGATGCTAGACTAGTTGCATCTGACGGGAGAA
GTTTGTGTTGTACCAGCGCATGCCTTGAAAGACTTAAGTAATGCAAAAGGTTGTCCTTTTTTTTTTTTTTTTTT
TTTTAATCTACTGACAAGTTGCTCTAGTAACCCAAAGAAGTGAAGGAGAAAGCAGCTGCCTCACCGCCAGACAT
TGATTGTTCAGATGTTTCAATGCCTCATGATACAATAAAACCACAAAAATTTCTTAACAAAAAAA

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FIGURE 4576

MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLPFQKIQHSITAQDHQP
TPDSCIISMVVGQLKADEDPIMGFHQMFLKNINDAWVCTNDMFRALAHNFG

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FIGURE 4577

ATTGCCCGGAGATGGCCGGCAGAGCCGCCGAGACGCCGAAGAGCCCGCCGCCGCGGAGGTGTAGACGGGGCAC
TGCCTTCAGAGCAGGTCTCTGCCAGCCTCGCTGGAGAGGATGCCCTCGTGTCCGTGATGGGCTGTGGGACAAGCAA
GGTCCTTCCCGAGCCACCCAAGGATGTCCAGCTGGATCTGGTCAAGAAGGTGGAGCCCTTCAGTGGCACTAAGAG
TGACGTGTACAAGCACTTCATCACAGAGGTGGACAGTGTGGCCCTGTCAAAGCCGGGTTCACGAGCAAGTCA
GTATGCACACCCCTGCCCGGTCCCCGACTGCTGGCCACACGGAGCCTCCCTCAGAACCACACGAGGGCCAG
GGTAGCTAAGTACAGGGCCAAGTTTGACCCACGTGTTACAGCTAAGTATGACATCAAGGCCCTAATTGGCCGAGG
CAGCTTCAGCCGAGTGGTACGTGTAGAGCACCGGGCAACCCGGCAGCCGTATGCCATCAAGATGATTGAGACCAA
GTACCGGGAGGGGCGGGAGGTGTGTGAGTCGGAGCTCGCTGTGCTGCGTCGGGTGCGTCATGCCAACATCATCCA
GCTGGTGGAGGTTTCGAGACACAGGAGCGGGTGTACATGGTATGGAGCTGGCCACTGGTGGAGAGCTCTTTGA
CCGCATCATTGCCAAGGGCTCCTTCACCGAGCGTGACGCCACGCGGGTGTGTCAGATGGTGTGATGGCGTCCG
GTATCTGCATGCACTGGGCATCACACACCGAGACCTCAAACCTGAGAATCTGCTCTACTACCATCCGGGCATGA
CTCCAAGATCATCATCACCGACTTCGGCCTGGCCAGTGTCTCGCAAGAAGGGTGTACTGCTTGATGAAGACCAC
CTGTGGCACGCTGAGTACATTGCCCCAGAAGTCTGGTCCGCAAGCCATAACCAACTCAGTGGACATGTGGGC
GCTGGGCGTCAATTGCCTACATCCTACTCAGTGGCACCATGCCGTTTGAGGATGACAACCGTACCCGGCTGTACCG
GCAGATCCTCAGGGGCAAGTACAGTTACTCTGGGAGCCCTGGCCTAGTGTGTCCAACCTGGCCAAGGACTTCAT
TGACCGCCTGCTGACAGTGGACCCCTGGAGCCCGTATGACTGCACTGCAGGCCCTGAGGCACCCGTGGGTGGTGAG
CATGGCTGCCTCTTCATCCATGAAGAACCTGCACCGCTCCATATCCCAGAACCTCCTTAAACGTGCCTCCTCGCG
CTGCCAGAGCACCAATCTGCCAGTCCACGCGTTCAGCCGCTCCACACGCTCCAATAAGTACGCGCGTGTGCG
GGAACGGGAGCTGCGGGAGCTCAACCTGCGCTACCAGCAGCAATAACAATGGCTGAGCCGCTGGCTGTGCACACA
TGCAGCAGCAGCCAGCCTGGCCACACACTGTGGTGCCATCTGGGTCCGATGCCCTCTCTGGAGATAGGCCTATGT
GGCCACAGTAGGTGAAGAATGTCTGGCTCCAGCCCTTTCTCTGTGCCTTCAGCAGCCCTGTCTCACCATGGG
CCTGGGCCAGGTGTGACAGAGTAGAGGTAGCACAGGGGGCTGTGACTCCCCCTGAAGTGGGAGCCTGGCCTGGCA
CTGATACCCCTCTTGGTGGGCAGCTGCTCTGGTGGAGTTGGGAAGGGATAGGACCTGGCCTTCACTGTCTCCCTT
GCCCTTTGACTTTTCCCAATCAAAGGGAAGTGCAGTGTGGGTGGAGTGCCTGTGGCCTCAGGACCCCTTTGGG
ACAGTTACTTCTGGGACCCCTTTCTCCACAGAGCCCTTCTCCCTGGTTTACACATTCCCATGCATCCTGATC
CTTAAGATTATGCTCCAGTGGGAGACCCCTGGTAGGCACAAAGCTTGTGCCTTGAAGTGGACCCGTAGCCCTGGCT
AGGTGGAACAGCCCTCCACCTCCCAGCCAAGATCTGTCTTCTTATGGTGCCTCCAGGGAGCCTTCTGTGTCC
CAGGACCTCTGGTGGAGGGCCATGGCGTGGACCTTACCCTTCTGGACTGTGTGGCCATGCTGCTCATCGGCTTG
CCCAGGCTCCAGCCTCTCCAGATTCTGAGGGGTCTCAGCCACCGCCCTTGGTGCCTTCTTTGTAGAGCCACCG
CTACCTCCCTCTCCCGTGGATGTCCATTCCATTCCCAGGTGCCTCCTTCCCAACTGGGGGTGGTTAAAGGGA
GCCCCACTGCTGCTACCTGGGGAATGGGGCACCTGGGGGCCAAGGCAGAGGGAAGGGGGTCTCCCGATAGGGTC
GAGTGTGAGCCTGGGTTCTATCCTTTGGTGCAGCCCCATTGCCTTTTCCCTTCAGGCTCTGTGCTCCCTCCTCT
GCAGCTGCACGAAGGCGCCATCTGGTGTCTGCATGGGTGTGGCAGCCTGGGAGTGATCACTGCACGCCCATCGT
GCACACCTGCCCATCTGCACACCCACCATGGTGCACACCTGTAGTCTCCATGAGGACATGGGAAGGTAGGAG
TTGCCGCCCTGGGGGAGGGTCCCGGGCTGCTCACCTCTCCCTTCTGCTGAGCTTCTGCGCACCCCTCCCTGGAA
CTTAGCCATACTGTGTGACCTGCCTCTGAAACCAGGGTGCCAGGGGCACTGCCTTCTCACAGCTGGCCTTGCCCC
GTCCACCTGTGCTGCTTCCCTTTCACAGCAATTAACCTTCCAGTCTGGGTCCCACTGAGCCTCAAGCTGGAAGGAG
CCCCTGCGGGAGGTGGGTGGGGTTGGGTGGCTGCTTTCCAGAGGCCTGAGCCAGAACCATCCCCATTTCTTTTG
TGGTATCTCCCCCTACCACAAACCAGGCTGGAACCCAAGCCCTTCTCCACAGCTGCCTTCAGTGGGTAGAATG
GGGCCAGGGCCAGCTTTGGCCTTAGCTTGACGGCAGGGGCCCTGCCATTGCAGGAGGGTTTGGTTCCCACTCAG
CTTCTGCCGGTGGCAGCCTGGGCCAGGCCCTTTTCTGCTATGTGCCACCTCCAGTGGGAAACAAAATAAGAG
ACCACTCTGTGCCAAGTCGACTATGCCCTAGACACATCCTCTACCGTCCCCAATGCCCCCTGGGCAGGAGGCAG
TGGAGAACCAAGCCCCATGGCCTCAGAAATTTCCCCCAGTTCCCCAAGTGTCTCTGGGGACCTGAAGCCCTGGGG
CTTACGTTCTCTCTTGGCCAGGGTGGGCTGGTCTGTAGGGCAGGACAGGGGGTTTGGAGATGTGGGCCCTTTGAT
AGACCACTTGGGCCCTCATGCCATGGCTGTGGATGGAGAATGTGCAGTTATTTATTATGCGTATTTCAGTTTGT
AAACGTATCCTCTGTATTTCAGTAAACAGGCTGCCTCTCCAGGGAGGGCTGCCATTTCATTCC

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FIGURE 4578

MGCGTSKVLPEPPKDVQLDLVKKVEPFSGTKSDVYKHFITEVDSVGPVKAGFPAASQYAHPCPGPPTAGHTEPPS
EPPRRARVAKYRAKFDPRVTAKYDIKALIGRGSFSRVVRVEHRATROPYAIKMIETKYREGREVCESLRVLRV
RHANIIQLVEVFETQERVYMMELATGGELFDRIIAKGSFTERDATRVLQMVLDGVRYLHALGITHRDLKPENLL
YYHPGTDSKIIITDFGLASARKKGDDCLMKTTTCGTPEYIAPEVLVRKPYTNSVDMWALGVIAYILLSGTMPFEDD
NRTRLRYQILRGKYSYSGEPWPSVSNLAKDFIDRLLTVDPGARMTALQALRHPWVVSMAASSSMKNLHRISQNL
LKRASSRCQSTKSAQSTRSSRSTRSNKSRRVRERELRELNRLRYQQQYNG

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FIGURE 4579

ATCTGCCACGATGTTGCTGCTCAGCCTGACCCTAAGCCTGGTTCTCCTCGGCTCCTCCTGGGGCTGCGGCATTCC
TGCCATCAAACCGGCACTGAGCTTCAGCCAGAGGATTGTCAACGGGGAGAATGCAGTGTTGGGCTCCTGGCCCTG
GCAGGTGTCCCTGCAGGACAGCAGCGGCTTCCACTTCTGCGGTGGTTCTCTCATCAGCCAGTCCTGGGTGGTCAC
TGCTGCCCCACTGCAATGTCAGCCCTGGCCGCCATTTGTTGTCTGGGCGAGTATGACCGATCATCAAACGCAGA
GCCCTTGACAGTTCTGTCCGICTCTCGGGCCATTACACACCCTAGCTGGAACCTTACCACCATGAACAATGACGT
GACGCTGCTGAAGCTCGCTCGCCAGCCAGTACACAACACGCATCTCGCCAGTTTGCCTGGCATCCTCAAACGA
GGCTCTGACTGAAGGCCTCACGTGTGTACACCCGGCTGGGGTGCCTCAGTGGCGTGGGCAATGTGACACCAGC
ACATCTGCAGCAGGTGGCTTTGCCCTGGTCACTGTGAATCAGTGCCGGCAGTACTGGGGCTCAAGTATCACTGA
CTCCATGATCTGTGCAGGTGGCGCAGGTGCCTCCTCGTGCCAGGGTGA CTCCGGAGGCCCTCTTGTCTGCCAGAA
GGGAAACACATGGGTGCTTATTGGTATTGTCTCCTGGGGCACAAAACTGCAATGTGCGCGCACCTGCTGTGTA
TACTCGAGTTAGCAAGTTACGACCTGGATCAACCAGGTCATAGCCTACAACTGAGCTCACCACAGGCCCTCCCC
AGCTCAACCCATTAAAGACCCAGGCCCTGTCCCATCATGCATTCAATGTCTGTCTTCTTGGCTCAGGAGAAAGAAG
AGGCTGTTGAGGGTCCGACTCCCTACTTGGACTTCTGGCACAGAAGGGGCTGAGTGACTCCTTGAGTAGCAGTGG
CTCTTCCTAGAGTAGCCATGCCGAGGCCGGGGCCCCACCCCTCCTCCAGGGCAACCCCTTGGTCCTACAGCAAG
AAGCCAGAACTGTTGGAATGAATGGCAGCCCTCCCTGGAGAGGCAGCCTGTTTACTGAATACAGAGGATACGTTT
ACAAACTGAATACGCATAATAAATAACTGCACATTCTCCATCCAAAAAAAAAAAAAAAAA

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FIGURE 4580

MLLSLTLSLVLLGSSWGCIPAIKPALSFSQRIVNGENAVLGSWPWQVSLQDSSGFHFCGGSLSISQSWVVTAAH
CNVSPGRHFVVLGEYDRSSNAEPLQVLSVSRAITHPSWNSTTMNNDVTLLKLASPAQYTTRISPVCLASSNEALT
EGLTCVTTGWGRLSGVGNVTPAHLQQVALPLVTVNQCROYWGSSITDSMICAGGAGASSCQGDSSGGPLVCQKGNT
WVLIGIVSWGTKNCNVRAPAVYTRVSKFSTWINQVIAYN

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FIGURE 4581A

GGCACGAGGGGCGGGGACAGCGGCGGGGACAGCGGCGGGCGGTGGGACGGCGGGTGCGGCGGGGCGGAGCCCCG
ACGATGCTCTACTTCACCGTGGTGCCAGTGGACGGGCGGAGGCGGGCGACTATGACAACCTCGAGGGGCTCAGT
TGGGTGGACTACGGGGAGCGCGCGAGCTGGATGACTCGGACGGACATGGCAACCACAGAGAGAGCAGCCCTTTT
CTTTCCCCCTTGGAGGCTTCCAGAGGAATTGACTACTATGACAGGAACCTGGCACTGTTTGGAGGAAGAGCTGGAC
ATCCGCCCCAAAGGTATCGTCTCTTCTGGGAAAGCTCGTCAGCTACACCAACCTCAGCCAGGGCGCCAAAGAGCAT
GAGGAGGCCGAGAGTGGGGAGGGCACCCGCGGAGGGCAGCCGAGGCACCCAGCATGGGCACCCCTCATGGGGTG
TACCTGCCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCTCGCGCTGACCTGGATGGTGGGCACAGCAGGT
GTGCTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTGACGGCCATCTCCATGAGTGCCATC
GCCACCAACGGTGTGGTTCCAGCTGGGGGCTCCTATTTTCATGATCTCTCGTTCACTGGGGCCAGAATTTGGAGGT
GCTGTGGGCTGTGCTTCTACCTGGGAACAACATTGCGAGCAGCCATGTACATCCTGGGGCCATCGAGATCTTG
CTGACCTACATTGCCCCACCAGCTGCCATTTTTTACCCATCGGGTGCTCATGACACGTGCAATGCCACTTTGAAC
AATATGCGTGTGTATGGGACCATTTTCTGACCTTCATGACCTGGTGGTGTGTTGTGGGGGTCAAGTATGTGAAC
AAATTTGCCTCGCTCTTCTGGCCTGTGTGATCATCTCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCTATA
TTTGACCTCCCGTGTTCCGGTATGCATGCTGGGCAACAGGACCCTGTCCCGGAGCAGTTTGACATCTGTGCC
AAGACAGCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTATGGAGTTTCTTCTGCCACAGCCCCAACCTTACG
ACCGACTCCTGTGACCCCTACTTCATGCTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGT
GTGCTCCAGGAAAACCTGTGGAGCGCCTACCTGGAGAAGGGTGACATCGTGGAGAAGCATGGGCTGCCCTCCGCA
GATGCCCCGAGCCTGAAGGAGAGCCTGCCTCTGTACGTGGTCTGCTGACATCGCCACATCCTTCACCGTGTGGTC
GGCATCTTCTCCCTTCTGTAAACAGGCATCATGGCTGGCTCAAACCGCTCTGGGGACCTTCGTGACGCCCAGAAG
TCTATCCCTGTGGGGACCATTCTGGCCATCATTACAACCTCCCTCGTGTACTTCAGCAGTGTGGTTCTCTTTGGT
GCCTGCATTGAGGGTGTGGTTCTCCGGGACAAGTATGGCGATGGTGTGAGCAGGAACCTGGTGGTGGGCACACTG
GCCTGGCCTTCACCCTGGGTATCGTCATCGGCTCCTTCTTTTCAACGTGTGGCGCTGGCCTCCAGAGCCTCACA
GGGGCACCACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCCTTCTCCGGGTGTTTGGCCACGGGAAG
GTGAATGGTGAACCCACATGGGCACTCCTCTGACGGCACTCATCGCCGAGCTGGGCATCCTCATCGCCTCCCTC
GACATGGTGGCCCCATCTTATCCATGTTCTTTCTGATGTGCTACCTGTTCTGTAACCTCGCCTGTGCGGTGCAG
ACACTCCTGAGGACCCCCAACTGGCGGCCCCGGTTCAAGTACTATCACTGGGCGCTGTCTTCTGGGCATGAGT
CTCTGCCTGGCCCTTATGTTGTCTCCTCCTGGTACTATGCCCTGGTGGCCATGCTCATCGCCGGCATGATCTAC
AAATACATCGAGTACCAAGGGGCTGAGAAGGAGTGGGGTGACGGGATCCGAGGCCTGTCCCTGAGCGCTGCCCGC
TACGCGCTGTTGCGGCTGGAGGAGGGGCTCCTCACACCAAGAACTGGCGGCGCGAGCTGCTGGTGTGCTGAAG
CTGGACGAGGACCTCCACGTGAAGTACCCGCGGCTCCTCACCTTCGCTCCAGCTCAAGGCTGGCAAGGGCCTG
ACCATTGTTGGTTCTGTATCCAGGGGAGCTTCTTGGAGAGCTATGGCGAGGCTCAGGCCGCCGAGCAGACCATC
AAGAACATGATGGAATTGAGAAGGTGAAGGGCTTCTGCCAGGTGGTGGTGGCCAGCAAGGTGCGGGAGGGGCTG
GCCCACCTCATCCAGTCTGTGGCCTGGGAGGCATGCGGCATAACTCCGTGGTGTGCTGGGCTGGCCCTACGGCTGG
CGACAGAGCGAGGACCCCCGTGCCTGGAAGACCTTATTGACACCGTGCGCTGCACTACGGCTGCCACCTGGCC
CTGCTCGTGCCCAAGAACATCGCCTTCTACCCAGCAACCACGAGCGCTACCTGGAGGGCCACATAGACGTGTGG
TGGATCGTGACGATGGTGGCATGCTCATGCTTCTGCCCTTCTGCTGCGCCAGCATAAGGTCTGGAGGAAGTGC
CGGATGCGCATCTTCACAGTGGCCCAGATGGATGACAACAGCATCCAGATGAAGAAGGACCTGGCTGTCTTTCTG
TACCATCTGCGCCTTGAGGCCGAGGTGGAGGTGGTGGAGATGCATAACAGTGACATCTCTGCATACACCTACGAG
CGGACGCTGATGATGGAGCAGCGGTGCGAGATGCTGCGGCAGATGAGACTGACCAAGACTGAGCGGGAGCGAGAA
GCCCAGCTGGTCAAGGATCGGCACTCGGCCCTGAGGCTGGAGAGCCTGTACTCGGACGAGGAAGATGAGTCTGCA
GTGGGGGCTGACAAGATCCAGATGACGTGGACCAGGGACAAGTACATGACTGAGACCTGGGACCCAGCCATGCC
CCTGACAATTTCCGGGAGCTGGTGCACATTAAGCCGGACCAATCCAATGTGCGGCGCATGCACACTGCTGTGAAG
CTCAATGAAGTCATTGTACGCGCTCCACGACGCGCCGCTGGTTCTCCTAAACATGCCTGGCCACCCAGGAAC
AGTGAGGGCGACGAGAACTACATGGAGTTCCTCGAGGTGCTGACCGAGGGCCTTGAGCGGGTGTGTTGGTGGCG
GGTGGTGGCCGTGAAGTCATCACCATCTACTCTGAGCCAGTGTCTATCTTGTGGCCTGGAGTCGAGGTCTTGGC
CAGGACATAACAAGCTGTGGTCTGGGGTAACAGCCTCTTCCAGCACCCACCTGCCAGCCCTGCTTGGCTGGCCC
TGTCCTGGACCCAGCTTTGCTAGGTCTCCTTGGAAACCAGGCTGGGCCTCAAAATGGAGATGGATCCCAGGTCT
TGTGGGACCTGGGATGTTTGGGGACTTTACTATCTAGCACCCAGTAGGCCTGTCTGGCCAGAGAAGACTGGT

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FIGURE 4581B

AGGGGCCGAGTGGGGTTTGAAGGCAGCCGGCCCCGCCAGCCAGGAGCGCTATTTATTGCATATTTATTGTTTG
GATGTCACCATCAGAGACGAAGGGAAGGGTAGCCAGGGAGGGAGTCCAGCCAGCTGCCTGCAGGAAGATCTGGC
TCAGTCTACTATGGGCAGGGCCCCCACCAGCTGAGCCGAATGGAGACAGCTGAGCTGAGGCCTGACTTTTCA
ATAAACATTGTGTAGTTCTGGGCAA

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FIGURE 4582

MPHFTVVPVDGPRRGDYDNLEGLSWVDYGERAELDDSDGHGNHRESSPFLSPLEASRGIDYYDRNLALFEEELDI
RPKVSSLLGKLVSYTNLTQGAKEHEEAESGEGTRRRRAEAPSMGTLMGVYLPCLQNIIFGVILFLRLTWMVGTAGV
LQALLIVLICCCCTLLTAISMSAIATNGVVPAGGSYFMISRSLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILL
TYIAPPAAIFYPGAHDTSNATLNNMRVYGTIFLTFMTLVVFVGKYNKFASLFLACVVISILSIYAGGIKSIF
DPPVFPVCM LGNRTL SRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPYFMLNNVTEIPGIPGAAAGV
LQENLWSAYLEKGDIVEKHGLPSADAPSLKESLPLYVVADIATSFTVLVGIFFPSTVGIMAGSNRSGDLRDAQKS
IPVGTILAIITTSLVYFSSVVLFGACIEGVVLRDKYGDGVSRLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTG
APRLLQAIKDNII PFLRVFGHGKVNGEPTWALLLTALIAELGILIASLDMVAPILSMFFLMCYLFVNLACAVQT
LLRTPNWRPRFKYYHWALSFLGMSLCLALMFVSSWYYALVAMLIAGMIYKYIEYQGAKEKEWGDGIRGLSLSAARY
ALLRLEEGPPHTKNWRPQLLVLLKLDEDLHV KYPRLTTFASQLKAGKGLTIVGSVIQGSFLESYGEAQAAEQTIK
NMMEIEKVKGFCQVVVASKVREGLAHLIQSCGLGGM RHNSVVLGWPGWRQSEDPRAWKTFIDTVRCTTAHLAL
LVPKNIAFYPSNHERYLEGHIDVWVIVHDGGMLMLLPFLLRQHKVWRKCRMRIFTVAQMDDNSIQMKKDLAVFLY
HLRLEAEVEVVMHNSDISAYTYERTLMMEQRSQMLRQMR LTKTEREREALVKDRHSALRLESLSDEEDES AV
GADKIQMTWTRDKYMTETWDP SHAPDNFREL VHIKPDQSNVRRMHTAVKLNEVIVTRSHDARLVLLNMPGPPRNS
EGDENYMEFLEVLTEGLERVLLVRGGGREVITIYS

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FIGURE 4583

ATCGCCAGCCTCCAGTCTGCCTCCACGACGCGCCCTTCCCCAAGGCTGGCCGGGTCTGGATGTCGCCATCCCCCT
ATTCGGAGCTACAGACCTCGCAGCTGAACCTTTAAAAAGAACCCTCGCTTCTTCCTCACGGTGCTCCAGCTCCACA
CACCGTACTGAGCCTCGCCAGCCACCGTACGCGAGGTGCGGGCGCGTCCGTGACGTCACTGATGTGCGCTTCTCC
CGCACTAAGGGAAACATGGCTCTAACGCGGCCGGTGC GGCTCTTTTCCCTCGTGA CTGGTTGCTCCTGGCGCCG
CGACGGGGCCTCACGGTCCGCAGTCCCGACGAACCCCTGCCGGTGGTGCGCATCCCAGTGGCTCTACAGCGGCAG
TTGGAACAGCGGCAGAGCAGGCGGCGGAACCTCCCGAGGCCGGTGCTGGTTGACCCGGACCGCTGCTGGTTTCG
GCGCGGGCGCGGAGTTGAACCAGCCGGCGCGCTCACACTGGGCCGTTGGGAGCGCGCGCCGCTAGCCTCTCAA
GGCTGGAAGAGTCGACGCGCGCGTCGGGACCACTTCTCCATCGAGCGCGCAACAGGAGGCGCCAGCGGTGCGA
AAGCTCTCGTCTAAGGGCAGCTTTGCTGACCTGGGCCTGGAGCCCCGTGTGCTGCACGCACTACAGGAGGCTGCG
CCTGAAGTCGTTAGCCCAACCCGTGCAGTCTAGCACCATCCCCCTACTACTTCGCGGCCGCCATGTCGTTTGC
GCCGAGAAACCGGCAGTGGCAAGACTCTCAGCTACCTCCTGCCGCTGCTTCAACGGCTCTTGGGCCAGCCAAGC
CTGGACTCCCTTCTATCCCCGCGCCCCGAGGCCCTGGTCTTGTTCCTTCCCGAGAATTGGCCCAACAGGTGCGG
GCTGTGGCCCAACCCCTTGGGCCGCTCCTTGGGCCCTGCTGGTGCGGGACCTGGAGGGAGGCCACGGCATGCGTAGG
ATCAGGCTGCAGCTGTCCAGACAGCCTTCAGCAGATGTGCTTGTGGCCACTCCAGGGGCTCTGTGGAAGGCCCTG
AAAAGTCGACTGATCAGTCTGGAGCAACTCTCCTTCTTGGTGTGGATGAGGCAGACACACTGCTGGATGAAAGC
TTCCTGGAAC TGGTGGACTACATCTTAGAGAAGAGCCACATAGCAGAAGGCCAGCTGACTTGGAAGACCCCTTC
AATCCCAAAGCTCAGTTAGTGCTGGTAGGAGCCACATTTCCCGAAGGTGTAGGCCAGTTGCTGAATAAAGTCGCC
AGCCCAGATGCTGTCAACCACCATCACCAGCTCCAAGCTCCACTGTATCATGCCTCATGTGAAACAGACATTTCTG
AGACTGAAGGGAGCAGATAAGGTGGCCGAGCTGGTGACATCCTCAAGCATCGTGACAGAGCAGAAAGGACTGGT
CCCTCAGGAAC TGTCTGGTGTCTGTAATAGCTCCAGCACTGTGAACTGGCTGGGATATATTCTGGATGACCAC
AAAATCCAACACCTAAGGTTGCAGGGGCAAATGCCAGCCTTGATGAGGGTAGGAATCTTCCAGTCTTCCAGAAG
AGCTCCCAGACATACTTCTCTGCACAGACATAGCCTCTCGGGGCCCTGGACAGCACTGGTGTGGAGCTGGTTGTC
AATTATGATTTCCCCCAACGCTGCAAGATTACATCCACAGAGCAGGGAGAGTGGGCCGTGTGGGAGCGAGGTG
CCAGGCACCGTCATCAGTTTTGTGACCCATCCCTGGGATGTGAGCCTGGTTCAGAAGATTGAGCTGGCGGCTCGC
CGAAGGAGAAGTCTTCAGGACTAGCATCCTCGGTGAAAGAGCCTTTGCCCAAGCAACCTGATTTTGACAAATC
TGATTAATAATGTGATGCTAGAACAGGGATCTTTCCAGTATCTTGAGTGGGTGACCACACTTGTGAGTGGGAGGC
TCTGGGCTGCCCTGTGCGCTCCTTGAGGGCGGGATGAACTGCTTTGTGACTTGGAAGGTACGCTGCTGGCCAGC
ATTGAGAAGAAGCTGCTGAGCATGGCTTTCTGTAGTCTTTAGCAAGACACAAGTGGATTTTGACTTTGTATCAT
GTCATGATTTCTAACAATAAATGATGTTTTTATGTGC

[illegible]

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FIGURE 4585

MILNSLSLCYHNKLILAPMVRVGTLP MRLLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDR VVFR
TCEREQNRVVFQMGTS DAERALAVARLVENDVAGIDVNMGCPKQYSTKGGMGAALLSDPKIEKILSTLVKGTRR
PVTCKIRILPSLEDTL SLVKRIERTGIAAIAVHGRKREERPQHVPVSCEVIKAIADTLSIPVIANGGSHDHIQQYS
DIEDFRQATAASSVMVARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLES PQGRL
LHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGEPAEDTSGVIKMAVKFDRRAYPAQITPKMCLL
EWCRRKLAQPVYETVQRPLDRLFSSIVTVAEQYQSTLWDKSKKLAEQAAAIVCLRSQGLPEGRLGEESPSLHK
RKREAPDQDPGGPRAQELAQPGDLCKKPFVALGSGEESPLEGW

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FIGURE 4586A

CGGCTGCGGTTCTTGGTGTCTCGGCGCGCGGCCAGCTTTTCGGAACGGAACGCTCGGCGTTCGCGGGCCCCGCC
GGAAAGTTTGCCGTGGAGTCGCGACCTCTTGCCCCGCGCGGCCCGGCATGAAGCGCGTTGAGGAGCTGCTGCCG
CCGCTTGCCGCTGCCGCCGCCGCCGCTGAGGAGGAGCTGCAGCACCTTGGGCCACGCCGATGACTACTGCAAAC
TGTGGCGCCACGACGAGCTCGACTTCAAACCTGCTTTTGCGGAGGACGGGGCGCCGGCGCCGCCCGGGC
TCGCGGCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGATCCACCTCCATCTACT
TTAACACACCACTTTGCTTACCACATCATGGATTACCGTCTCACTCTTCTGTTTTGTACCATCGTTTCAGCTC
CAAAGTCACAAAACTATGAAGGAACCTGTGAGATTCTGAATCTAAATATAGCCATTAGGTGGTCCCAAACCC
TTTGAGTGCCCAAGTATTCAAATTACATCTATCTCTCTAACTGTCAATCAAGAATTAGATGCACATGAAGATGAC
CTACAGATAAATGACCCAGAACGGGAATTTTGGAAAGGCCCTTCTAGAGATCATCTCTATCTTCTCTTGAGCCA
TCCTACCGGGAGTCTTCTCTTAGTCTTAGTCTGCCAGCAGCATCTCTCTAGGAGTTGGTTCTCTGATGCATCT
TCTTGTGAATCGCTTTACATATTTATGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCGATTACCCCT
GGATCCCCCTGACTTCTCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAACTTGGCATCAACAGTATGGA
CTTGACACTCATTATCACCCAGGCAATCTCTTGCCACTCTCTAGATCCAGTGTCACTGATGAGAAATGGCTG
AGCCCCAGGCCAGCCTCAGGACCTCATCAAGGCCACATCCCCCTGTGGGAACGGAGGCACTCCAGTGCTGAA
GTTTGTATGCTGGGTCCCTTTACCCCCATCACTCACTGTTTCTTCACTGGTCACTCCCCAGGGGAAGTGTG
ACAGAAGATACGTGGCTCAATGCTTCTGTCCATGGTGGGTGAGGCTTGGCCCTGCAGTTTTTCCATTTCAGTAC
TGTGTAGAGACTGACATCCCTCTCAAAACAAGGAAACTTCTGAAGATCAAGCTGCCATACTACCAGGAAATTA
GAGCTGTGTTGAGATGACCAAGGGAGTTTATCACCAGCCCGGAGACTTCAATAGATGATGGCCTTGGATCTCAG
TATCCTTTAAAGAAAGATTTCATGTGGTGATCAGTTTCTTTCAGTTCCCTTACCCTTTACCTGGAGCAAACCAAG
CCTGGCCACACCCCTATATTTGCGACATCTTCATTACCTCCACTAGACTGGCCTTTACCAGCTCATTTTGACAA
TGTGAAGTGAAGATAGAAGTGCAACCTAAACTCATCATCGAGCCCATATGAACTGAAGGTAGCCGAGGGGCA
GTAAAGCATCTACTGGGGACATCTGTGTGTAAGCTCCTGGGCTATAACGAAAAGCCAATAAATCTACAAATG
TTTATTGGGACAGCAGATGATCGATATTTACGACCTCATGCATTTTACCAGGTGCATCGAATCACTGGGAAGACA
GTCGCTACTGCAAGCCAAGAGATAATAATTGCCAGTACAAAAGTTCTGGAAATTCCACTTCTTCTGAAAATAAT
ATGTCAGCCAGTATTGATTGTGCAGGTATTTTGAAGTCCGCAATTCAGATATAGAAGTTCGAAAAGGAGAACT
GATATTGGCAGAAAGAATACTAGAGTACGACTTGTGTTTCTGTGTACACATCCACAGCCAGTGGAAAAGTCTT
TCTCTGCAGATAGCCTCTATACCCGTTGAGTGCTCCAGCGGTCTGCTCAAGAACTTCTCATATTGAGAAGTAC
AGTATCAACAGTTGTTCTGTAAATGGAGGTGATGAAATGGTTGTGACTGGATCTAATTTCTTCCAGAATCCAAA
ATCATTTTTCTTGAAAAGGACAAGATGGACGACCTCAGTGGGAGGTAGAAGGGAAGATAATCAGGGAAAAATGT
CAAGGGGCTCATTGTCTTGAAGTTCCTCCATATCATAACCCAGCAGTTACAGCTGCAGTGCAGGTGCATTT
TATCTTTGCAATGGCAAGAGGAAAAAAGCCAGTCTCAACGTTTTACTTATACACCAGTTTTGATGAAGCAAGAA
CACAGAGAAGAGATTGATTTGTCTTCAGTTCCATCTTTGCCTGTGCCTCATCTGCTCAGACCCAGAGGCCTTCC
TCTGATTACGGGTGTTTACATGACAGTGTACTGTGAGGACAGAGAAGTTTGATTGTCTCCATCCACAAACATAT
GCATCCATGGTGACCTCATCCATCTGCCACAGTTGCAGTGTAGAGATGAGAGTGTAGTAAAGAACAGCATATG
ATTCTTCTCCAAATTGTACACCAGCCTTTTCAAGTACACCAACACCTCTGTGGGGTCTTCTATCAGCCTATG
CAAATAATGTTGTGTACAATGGACCAACTTGTCTTCTATTAATGCTGCCTCTAGTCAAGAATTTGATTGAGTT
TTGTTTCAGCAGGATGCAACTCTTCTGGTTTTAGTGAATCTTGGCTGTCAACCACTGTATCCATACCATTTTCAT
TCTTCAAATTCAGGCTCAACAGGACATCTCTTAGCCCATACACCTATTCTGTGCATACCCTGCCTCATCTGCAA
TCAATGGGATATCATTGTTCAAATACAGGACAAAGATCTCTTTCTTCTCCAGTGGCTGACCAGATTACAGGTCAG
CCTTCGTCTCAGTTACAACCTATTACATATGGTCTTTCATATTCAGGGTCTGCTACAACAGCTTCCCCAGCAGCT
TCTCATCCCTTGCTAGTTACCGCTTTCTGGGCCACCATCTCTCAGCTTACAGCTTATGCCTTACCAATCTCT
AGCTCAGGAAGTGCCTCATCACCGTCTCCAGCCACCAAGATGCATTCTGGACAGCACTCAACTCAAGCACAAAGT
ACGGGGCAGGGGGTCTTTCTGCACCTTCATCTTAAATATGTACAGTTTGTGTGATCCAGCGTCATTTCCACCT
GATGGGGCAACTGTGAGCATTAAACCTGAACCAAGATCGAGAGCCTAACTTTGCAACCATTTGGTCTGCAGGAC
ATCACTTTAGATGATGACCAATTTATATCTGACTTGGAAACACCAGCCATCAGGTTTACGAGAGAAATGGCTTAA
CACAGTGTGCTCTCATGTCCAGCTCCTTTCTGGAGAACTTAGAGGTGAACGAGATAATTGGGAGAGACATGTCCC
AGATTTCTGTTTTCCAAAGGAGCAGGGGTGAGCAGGAGGCTCCCCCTCCGAGTCTGAGTCCCTGGATTTAGGAA
GATCTGATGGGCTCTAACAGTGCTTACTGCAGCCTTGTGTCCACCACCAACTTCTCAGCATGTTTTCTCTCTTGG

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FIGURE 4586B

ACCTTGGGTTTCCAACCTCTGCAGCCTTCAGGTCTGGGGCCAGGAGTGGGACCCACCATTTGTGGGGAAAGTAGCA
TTCCTCCACCTCAGGCCTTGGGTAGATTTGGCAAAGAACAGGAGCAGCATAGGCTGTTTGAGCITTGGGGAAAT
GAACTTTGCTTTTTATATTTAACTAGGATACTTTTATATGATGGGTGCTTTGAGTGGAATGCAGCAGGCTCTCT
TGTTTCCGAGGTGCTGCTTTTGCAGGTGACCTGGTTACTTAGCTAGGATTGGTGATTTGTACTGCTTTATGGTCA
TTTGAAGGGCCCTTTAGTTTTTATGATAATTTTAAATAGGAACCTTTTGATAAGACCTTCTAGAAGCC

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FIGURE 4587

MTTANCGAHDELDFKLVFGE DGAPAPPPPGSRPADLEPDDCASIYIFNVDPFPSTLTTPCLCLPHHGLPSHSSVLS
PSFQLQSHKNYEGTCEIPESKYSPLGGPKPFECPSIQITSISPNC HQELDAHEDDLQINDPEREFLE RPSRDHLY
LPLEPSYRESSLSPPASSISSRSWFSDASSCESLSHIYDDVDSELNEAAARFTLGSP L TSPGGSPGGCPGEETW
HQQYGLGHSLSPRQSPCHSPRSSVTDENWLSRPASGPSSRPTSPCGKRRHSSAEVCYAGSLSPHHSVPVSPGHS
PRGSVTEDTWLNASVHGSGSLGPAVFPFQYCVETDIPLKTRKTS EDQAAILPGKLELCSDDQGSLS PARETSIDD
GLGSQYPLKKDSCGDQFLSVSPFTWSKPKPGHTPIFRTSSLPPLDWPLPAHFGQCE LKIEVQPKTHHRAHYETE
GSRGAVKASTGGHPVVKLLGYNEKPINLQMFIGTADDRYL RPHAFYQVHRITGKTIVATASQEII IASTKVLEIPL
LPENNMASASIDCAGILKL RNSDIELRKGETDIGRKNTRVRLVFRVHIPQPSGKVL SLQIASIPVECSQ RSAQELP
HIEKYSINSCSVNGGHEMVVTGSNFLPESKII FLEKGQDGRPQWEVEGKI IREKCQGAHIVLEVPPYHNPAVTAA
VQVHFYLCNGKRKKSQSQRFTYTPVLMKQEHREEIDLSSVPSLPVPHPAQTORPSSD SGCSHDSVLSGQRSLICS
IPQTYASMVTSSHL PQLQCRDESVSKEQHMI P SPIVHQPFQVTPTPPVGSSYQPMQTNV VYNGPTCLPINAASSQ
EFD SVLFQQD ATLSGLVNLGCQPLSSIPFHSSNSGSTGHLLAHTPHSVHTLPHLQSMGYHCSNTGQ RSLSSPVAD
QITGQFSSQLQPI TYGPHSGSATTASPAASHPLASSPLSGPPSPQLQMPYQSPSSGTASSP SPATRMHSGQHS
TQAQSTGGGLSAPSSLICHSLCDPASFPDPGATVSIKPEPEDREP NFATIGLQDITLDDDQFISDLEHQPSGSA
EKWPNH SVLSCPAPFWRI

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FIGURE 4588A

GGCACGAGGGCACCATTGGATGCTTACTTTTCAGGTGAGCAGGACCCAGCCTGACTTGCCAGCTACCACTTATGAT
TCAGAGACTAGGAATCCTGTATCTGAAGAGTTGCAGGTGTCTAGTAGTTCTGATTCTGACAGTGACAGCTCTGCA
GAGTATGGAGGGGTTGTTGACCAGGCAGAGGAATCTGGAGCTGTCATTTTAGAAGAGCAACTAGCAGGTGTCTCA
GCAGAGCAAGAAGTTACATGTATCGATGGAGGCAAGACCCTCCCCAAACAGCCATCTCCCCAGAAGTCTGAGCCT
CTGCTACCTTCTGCTTCTATGGATGAGGAAGAAGGGGACACTTGTACAATATGTCTGGAACAGTGGACCAATGCT
GGGGACCACCGGCTCTCAGCATTACGCTGTGGGCATCTCTTTGGGTATAGGTGCATTTCCACGTGGCTTAAAGGA
CAAGTACGAAAATGTCCCCAGTGCAACAAGAAAGCCAGGCACAGTGACATTGTCGTCTTTATGCCCGAACCCCTG
AGAGCTTTGGACACTAGTGAACAGGAGCGCATGAAAAGTTCCCTACTGAAGGAACAGATGCTAAGGAAACAGGCC
GAGTTAGAATCAGCACAGTGCCGACTCCAAGTGCAGGTCTCTACTGATAAGTGCCTAGGCTTCAAAGGCGTGTT
CAGGACTTGCAAAAACCTTACGTCACATCAAAGTCAGAATTTACAGCAACCCAGGGGCTCCCAAGCATGGGTCTTG
AGCTGCTCACCTCCAGCCAGGGCCAGCACAAAGCACAAGTACCCTTCCAAAAGACCTTCACAGTATCTCAGGCA
GGAACTGCCGGATCATGGCATACTGTGATGCTCTGAGCTGCCTGGTGATATCACAGCCTTCTCCTCAGGCCTCT
TTTCTTCCAGGCTTTGGTGTTAAGATGTTGAGTACTGCCAATGAAGAGCAGTCAGTACATTCCGATGCATGGC
AAACAGATCCGTGGACTGGCGTTTAGCAGTTACCTCAGAGGCTTGCTACTCTCTGCTTCCCTAGACAACACTATT
AAACTGACCAGCCTGGAGACAAATACCGTGGTCCAGACTTATAATGCTGGACGCTCTGTCTGGAGCTGTGCTGG
TGTCTTGATGAGGCTAACTACATCTATGCTGGACTGGCCAATGGTTCAATTCTGGTATATGACGTGCCAAACAG
AGCAGTCATGTGCAGGAGTTAGTAGCTCAGAAAGCCAGATGCCCACTGGTCTCCCTGTCATACATGCCAGAGCT
GCCTCAGCTGCATTTCCATATGGTGGGGTGTCTGGCTGGAACCTTGAGGATGCTTCATTCTGGGAACAGAAAATG
GACTTTTCTCATTGGCCTCATGTGCTGCCCTTGGAGCCAGGGGGTGCATAGACTTTCAGACAGAGAACAGCTCC
CGGCACTGTCTGTGACCTACAGGCCTGATAAAAATCACACCACCATAACGAAGTGTGCTGATGGAATGTCTTAC
CGACTGGATGACACTGGAAATCCAATCTGCTCCTGCCAGCCTGTACATACATTTTTTGGAGGACCTACTTGCAAA
CTATTGACCAAAAATGCCATTTTCAAAGCCCAGAGAATGATGGCAACATCCTGGTGTGACTGGGGATGAAGCA
GCAAAATCTGCCCTGTCTGTTGGATGCTGCCAGTGGCTCGTTGCTCCAGGACCTACAGACCGATCAGCCTGTGTTG
GACATCTGCCCATTTGAGGTGAACCGTAACAGCTACTTGGCTACCTTAACAGAGAAGATGGTCCACATCTATAAG
TGGGAGTGACTGTGGTCTCGAAACCTTGAAGGCATGCTGCTGGTTAGATGTTGTTTGTAGCGCCTAGCAGCCCC
AAGCAAGATCCCTGTTTATTGTCTGCAGTCTAGAACATTGGGAATCATGGTTTGTGTTGCATTAGTATGATTCTAG
GACCTTAGGTCACTGAGACACTACAGATTGTGTATCTGTTATGTCCACTAAAAGAGTAATTGATGGGTACTTTAT
CTACATTATCCATTTCTTGGGTTTAAAGCCTTCATTAACCATTATTGTATGTTGGAATTTCTTATTTTCTTTATT
TTCTGTGTGACTTTCTGGACCTTAGAGAGTGTCTCTCATCATCTAGGATGTGAGTGGGCATCAAGCATTTTCTG
GGGAATATGACATCCCATCTGAGTTGTCTGTCACTTAAGTATCCTTGAAGGGACTAACCATCGTCTTGGTACTG
ATTTGATGCAACGTAGATGTAAAAGAGTATTATTAGTTGAACACAAGAGGGCAGTGTAGAACCTTGTGTCCGGT
TTATTTCTGACCTTGAAGGCTGACAATCTTTTAGTAACCTTGTCTCATCTCCACACAAGTGTGTGATAGCACCT
GGGTGTGCTTTGTGGCAATAACACTTGTGTTCCAGGTGTGAAGTGTGGGACATTGGCAGGCCCAGTGATGGAAG
CAGCTAGTGAACGATTCCCTTTGCTAATGCCTAGTGCATTAAGTTCAATTGCTTTGCGAAAGGTAAGGAAAGAGGC
CAGTTGTTTGTAGCGGTGGGGAAGATTTGTTTTTTCTAGCCAGCTTAGGATCTCAGGATTGGTTTTATCCAAGCT
AGTGCTTTGAAGAACACTATCTCTTGCCAGGAAAAGATGAGTGATAGGTCAAAGCTTTTACTTGAGTCTCCCTA
GTGTCAGAGATCAGGAGAAAAGACATAAGAGAATTTACAAAAGCTATTTCAGACTGCTATTGAAAACATGAGAAGA
ACTTGCTCTCCATTTTGAGAGTTCCTATCTAAATAAAGCCAATTCCTCAGACTGAGGGGCTGTTCTTAAGTGTTT
TTTATACATTCCAGTTATCCAGTTAAAGCCTTCCCCATGTGAAGCTGATGTTTGATTCCAGTTTCTTTGATTG
CCTCCCTAACCTTTTCTAGGGCTCAGTTTGTATTTCTTTGCCTTGCCCTCAGACTACTTTGCCAACCCACTTCCAC
AACAGAATATGCTTCAAGATGTGGGCAGGTGAGTGTCTGTTTATGGGAGAAAATGGCTTAAAGTCTGATTTTC
TCAAAATGATTATTGAAGAGTTGTTATCGTTTTTTTATATAAAACACTTCTGACCTGTCAATTCAAGAGCTGTTTCT
AGGATCTTTCTCTCCGGCAAGGGGTTGTTGCACTAGATTTCCCAGAGTTCCAAGTCTAGTTGTGCCTTTTAAT
GACCCCTTAAATATTTTAGGACATAATTTTTTCTTTTTTAAATTTTTTGTAGAAATAGATGTTTCACTACGTTG
TCCAGGCTGGTCTTGGACTCCTGGCCTCAAGCAATCTCCACCTCAGCCTCCTAAAGTGCCAAAATTATAGGCG
TGAGCCACTGCACCCGGCCCCCTATTGAAGACGCTTTTTGTAAAAGCTAGCTTCTAGAACCTGAGAAAAGCTCTT
TTCTCAGAGGAGATACTCCTTTTGATAIGTTAATGATTAAGAGTGGTTGCCAGGCCTAGTTTCACTGGCAGAAT
AGGATTGGAATTAAGGAGCAGAACTCATCTGGCTTCAGCAGATTGCCACCAAGAGGATACAGGTGGTCAGGTCTCT

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FIGURE 4588B

GGCTGGCTTTGTCTTTGGGCCTGGGCAGGCTTAGGATTTGACTTTCTTTGAAGTACCTGATGCTGATTGATTCCA
CTAATAGTAGGAAGCAAGAGACTTAACTATGAGGGACGTTATGTGAATCTTAAGTCTTACCAGTCCTTGCATTAG
TACATTAAATTTGGATGTTTTGGAAGCAAATTCATACGATCGTGAGTGATTTCTCCAAAGAAAAAAGCCTTGTC
CAGCCTGACCAACATGGTGAAACCCATCTCTACTAAAAATACAAAAATTAAGTGGGTGCAGTGGTGCGCATGCC
TGTAAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGGAGGCAGAGGTTGCAGTGAGTCG
AGATCGCGCCACTGCACTCCAGCCTCGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4589

MKSSLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSNLQQPRGSQAWVLSCSPSSQGQH
KHKYHFQKTFTVSQAGNCRIMAYCDALSCLVISQPSQASFLPGFGVKMLSTANMKSSQYIPMHGKQIRGLAFSS
YLRGLLLSASLDNTIKLTSLETNTVVQTYNAGRPVWSCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQ
KARCPLVSLSYMRAASAAFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRPD
KNHTTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGDEAANSALLWDAA
SGSLQLDLQTDQPVLDICPFEVNRNSYLATLTEKMHVHIYKWE

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FIGURE 4590

ATGAACTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTTTGTCCAGGCGCCCAGCTACAGT
GCCCGGCCAGTCAGCAGCATGGCCAGCGTCTATGCAGGCACCAGGGGCTCTGGTTCCTGGATCTCCATGTCCCAC
TCCGCCAGCTTCTGGGGCGGCATGGGGTCTGGGGGCCTGTCCGCGGGGATGGCTGGGGGTCTTGCAAGAATGGGA
GGCATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAAGTACTGCCTGACCTCCTACCTGAACACAGTGAGGAAC
CTGGAGATGGAGAAGCTGGAAGCTAGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGACCCCAGTTCAGAGAC
TGGAGCCGTTACTTCCAGACCATCAAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATC
GTTCTGCAGATTGACAGTGCCCGTCTTGACAGCTGATGATTTTAGATCTGTGGAGAATGACATCCATGGGCTCTGC
AAGGTCATTGATGACACCAGTGTCACTTGGCTGCAGCTGGAGACAGAGATCAAGGCTCGCAAGGAAGAGCTGCTC
TTCATGAAGAAGAACCACGGAGAGGAAGTAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCTTGGAG
GACCTCGCCAAGATCATGGCAGACATCTGGGCCCCAATATGACAAGCTGGCTCGGAAGAACAGAGAGGAGCTGGAC
AAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACGGTGGTCACCACGCAGTCCGTCAAGGTTGGAGCTGCTGAG
ACGACACTCACGGAGCTGAGATATACAGTCCAGTCCCTGGAGACTGACCTGGACTCAATGAGAAATCTGAAGGCC
AGCTTGGAGAACAGCCTGAGGGAGGTGGAGGGCCGCTACACCCTGCAGATGGAGCAGCTCAACGGGATCCTGCTT
TACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGGTCTTCTTACTGATGTGTTGCTCTTCTTCATGGCTC
GTGAAAACATATTAGAGTCATCCAAGATTCTAAGTTCCTGACTCAGAATCTTACTGTTGTGAACCTTTACCCCAG
GTTTGGAGACAGAAAGGAGCACCGCCAAGTGAGGCAGAGCAGTCTCAGAAACATAGGAAAATGGTGGGAAGAGAG
ATCAGCAACGTTAACTGGGTGTCAAGAAAACATACCGAGATTGAAGCCATCCACTTCTGCAGGAACACCGAAAAG
AAAGGTACAACGCTTGGGGAAAGACTGGATTTTATTAGGGACAGTGACAATACCTGTTTGACATAG

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FIGURE 4591

MNFTTRSTFSTNYRSLGFVQAPSYSARPVSSMASVYAGTRGSGSWISMSHSASFWGGMGSGGLSAGMAGGLARMG
GIQNKKETMQSLKYCLTSYLNTRNLEMENWKLESKIREHLEKKGPQFRDWSRYFQTIKDLRAQIFANTVDNACI
VLQIDSARLAADDFRSVENDIHGLCKVIDDTSVTWLQLETEIKARKEELLFMKNHGEEVKGLQAQIASSGLTLE
DLAKIMADIWAQYDKLARKNREELDKYWSQQIEESTTVTTQSVKVGAAETTLTELRYTVQSLETDLDSMRNLKA
SLENSLREVEARYTLQMEQLNGILLYLESELAQTRAEGSFLLMCCSSWLVTIRVIQDSKFLTQNLTVVNLYTQ
VWRQKGAPPSEAEQSQKHKMVGREISNVNVWSRKHTEIEAIFCRNTEKKGTTLGERLDFIRDSNTCLT

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FIGURE 4592A

ATAATGGCCGCTTTCAAGGTGTGGATTTTGGCTCCTTGAGCCTGTCTGAGCGAGGGGTGGCAGCGCCGGCGCCCC
AGAATCCGGGACAGAAGGGTCCCAAGAGTCGCGCTTGGTGAGAGAAATCCCAGATCCTGTGATGGGGACACCAG
TGAGGATGCCTCGATCCATCGATTGGAAGGCACTGATCTGGACTGTCAGGTTGGTGGTCTTATTTGCAAGTCCAA
AAGTGGCGCCAGCGAGCAGCATGTCTTCAAGGCTCCTGCTCCCCGCCCTTCATTACTGGGACTGGACTTGCTGGC
TTCCCTGAAACGGAGAGAGCGAGAGGAGAAGGACGATGGGGAGGACAAGAAGAAGTCCAAAGTCTCCTCTACAA
GGACTGGGAAGAGAGCAAGGATGACCAGAAGGATGCTGAGGAAGAGGGCGGTGACCAGGCTGGCCAAAATATCCG
GAAAGACAGACATTATCGGTCTGCTCGGGTAGAGACTCCATCCCATCCGGGTGGTGTGAGCGAAGAGTTTTGGGA
ACGCAGTCGGCAGAGAGAGCGGGAGCGGAGGGAACATGGTGTCTATGCCTCGTCCAAAGAAGAAAAGGATTGGAA
GAAGGAGAAATCGCGGGATCGAGACTATGACCGCAAGAGGGACAGAGATGAGCGGGATAGAAGTAGGCACAGCAG
CAGATCAGAGCGAGATGGAGGGTCAGAGCGTAGCAGCAGAAGAAATGAACCCGAGAGCCCACGACATCGACCTAA
AGATGCAGCCACCCCTTCAAGGTCTACCTGGGAGGAAGAGGACAGTGGCTATGGCTCCTCAAGGCGCTCACAGTG
GGAATCGCCCTCCCCGACGCCTTCTATCGGGATTCTGAGCGGAGCCATCGGCTGTCCACTCGAGATCGAGACAG
GTCTGTGAGGGGCAAGTACTCGGATGACACGCCTCTGCCAACTCCCTCTACAAATATAACGAGTGGGCCGATGA
CAGAAGACACTTGGGGTCCACCCCGCTCTGTCCAGGGGCCGAGGAAGACGTGAGGAGGGCGAAGAAGGAATTTT
ATTTGACACGGAGGAGGAGCGGCAGCAGTGGGAAGATGACCAGAGGCAAGCCGATCGGGATTGGTACATGATGGA
CGAGGGCTATGACGAGTTCACAACCCGCTGGCCTACTCTCCGAGGACTACGTGAGGAGGCGGGAGCAGCACCT
GCATAAACAGAAGCAGAAGCGCATTTTCAGCTCAGCGGAGACAGATCAATGAGGATAACGAGCGCTGGGAGACAAA
CCGCATGCTCACCAGTGGGGTGGTCCATCGGCTGGAGGTGATGAGGACTTTGAAGAGGACAACGCGGCCAAGGT
GCATCTGATGGTGCACAATCTGGTGCCTCCCTTTCTGGATGGGCGCATTTGCTTCACCAAGCAGCCGGAGCCGGT
GATTCCAGTGAAGGATGCCACTTCTGACCTGGCCATCATTTGCTCGAAAGGCAGCCAGACAGTGGGAAGCACAG
GGAGCAGAAGGAGCGCAAGAAGGCTCAGCACAAACACTGGGAAGTGGCGGGACCAAAGTGGGAGATATAATGGG
CGTCAAGAAGGAGGAAGAGCCAGATAAAGCTGTGACGGAGGATGGGAAGGTGGACTACAGGACAGAGCAGAAGTT
TGCAGATCACATGAAGAGAAAGAGCGAAGCCAGCAGTGAATTTGCAAAGAAGAAGTCCATCCTGGAGCAGAGGCA
GTACCTGCCCATCTTTGCAGTGCAGCAGGAGCTGCTCACTATTATCAGAGACAACAGCATCGTGATCGTGGTTGG
GGAGACGGGGAGTGGTAAGACCACTCAGCTGACGCAGTACCTGCATGAAGATGGTTACACGGACTATGGGATGAT
TGGGTGTACCCAGCCCCGGCGTGTAGCTGCCATGTGAGTGGCCAAGAGAGTCAGTGAAGAGATGGGGGGAACCT
TGGCGAGGAGGTGGGCTATGCCATCCGCTTTGAAGACTGCACTTCAGAGAACACCTTGATCAAATACATGACTGA
CGGGATCCTGCTCCGAGAGTCCCTCCGGAAGCCGACCTGGATCACTACAGTGCCATCATCATGGACGAGGCCCA
CGAGCGCTCCCTCAACACTGACGTGCTCTTTGGGCTGCTCCGGGAGGTAGTGGCTCGGCGCTCAGACCTGAAGCT
CATCGTCACATCAGCCACGATGGATGCGGAGAAGTTTGTGCGCTTTTTTGGGAATGTCCCCATCTTCCACATCCC
TGGCCGTACCTTCCCTGTTGACATCCTTTCAGCAAGACCCACAGGAGGATTACGTGGAGGCTGCAGTGAAGCA
GTCTTGCAGGTGCACCTGTGCGGGGCCCTGGAGACATCCTTATCTTCATGCTGCGCCAAGAGGACATTGAGGT
GACCTCAGACCAGATTGTGGAGCATCTGGAGGAAGTGGAGAACGCGCCTGCCCTGGCTGTGCTGCCCATCTACTC
TCAGCTGCCTTCTGACCTCCAGGCCAAAATCTTCCAGAAGGCTCCAGATGGCGTTCCGAAGTGCATCGTTGCCAC
CAATATTGCCGAGACGTCTCTCACTGTTGACGGCATCATGTTTGTATCGATTCTGGTTATTGCAAATTAAGGT
CTTCAACCCCAAGGATTGGCATGGATGCTCTGCAGATCTATCCCATTAGCCAGGCCAATGCCAACCAGCGGTACAG
GCGAGCCGGCAGGACGGGCCAGGTGAGTGTTCAGGCTCTACACCCAGAGCGCCTACAAGAATGAGCTCCTGAC
CACCACAGTGGCCGAGATCCAGAGGACTAACCTGGCCAACGTGGTGTGCTGCTCAAGTCCCTCGGGGTGCAGGA
CCTGCTGCAGTTCCACTTCATGGACCCGCCCGGAGGACAACATGCTCAACTCTATGTATCAGCTCTGGATCCT
CGGGGCCCTGGACAACACAGGTGGTCTGACCTCTACCGGGCGGCTGATGGTGGAGTTCCCGCTGGACCTGCCCT
GTCCAAGATGCTCATCGTGTCTGTGACATGGGCTGCAGCTCCGAGATCCTGCTCATCGTTTCCATGCTCTCGGT
CCCAGCCATCTTCTACAGGCCAAGGGTCGAGAGGAGGAGAGTGATCAAATCCGGGAGAAGTTCGCTGTTCTCTGA
GAGCGATCATTTGACCTACCTGAATGTTTACCTGCAGTGGGAAGAACAATAATTACTCCACCATCTGGTGAACGA
TCATTTTCATCCATGCTAAGGCCATGCGGAAGGTCCGGGAGGTGCGAGCTCAACTCAAGGACATCATGGTGCAGCA
GCGGATGAGCCTGGCCTCGTGTGGCACTGACTGGGACATCGTCAGGAAGTGCATCTGTGCTGCCTATTTCCACCA
AGCAGCCAAGCTCAAGGAATCGGGGAGTACGTGAACATCCGCACAGGGATGCCCTGCCACTTGCACCCACCAG
CTCCCTTTTTTGAATGGGCTACACCCAGATTACATAGTGTATCAGAGTTGGTTCATGACCACCAAGGAGTATAT
GCAGTGTGTGACCGCTGTGGACGGGGAGTGGCTGGCGGAGCTGGGCCCATGTTCTATAGCGTGAAACAGGCGGG

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FIGURE 4592B

CAAGTCACGGCAGGAGAACCGTCGTCGGGCCAAAGAGGAAGCCTCTGCCATGGAGGAGGAGATGGCGCTGGCCGA
GGAGCAGCTGCGAGCCCGGCGGCAGGAGCAGGAGAAGCGCAGCCCCCTGGGCAGTGTCTAGGTCTACGAAGATCTA
CACTCCAGGCCGAAAGAGCAAGGGGAGCCCATGACCCCTCGCCGCACGCCAGCCCGCTTTGGTCTGTGAGCTGA
GGCTGTCCCCAGAGAGGATGGCAGCAGGTATTGGGTCTCAGCCTTCTGGCGGGAGCCCTGAGGCTGCGGACAAA
GCCCTTTCATCTGAGGACTTTCATCTGTGCATATCACGGCCCCCAGGGCAGTTCTGCTGGACCAGACTCTCTG
GCAGAGGAGGTGGAGTTCTTCCATGCAGGAGCACGGCATGGCGGGAGCGGGGCTGCAGAGTATCCGAGGTGCTGC
CGGGGCAGCGGGAGGTGGCTGGACCCATCGCATCTAAACTGGCCCAGGACACTTGGTGTATGCGTGA

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FIGURE 4593

MGDTSEDASIHRLGTDLDCQVGGGLICKSKSAASEQHVFKAPAPRPSLLGLDLLASLKRREEREKDDGEDKKKSK
VSSYKDWEESKDDQKDAEEEGGDQAGQNIRKDRHYRSARVETPSHPGGVSEEFWERSRQERERERREHGVYASSKE
EKDWKKEKSRRDRDYDRKRDRDERDRSRHSSSRERDGGSSERSSRRNEPESPRHRPKDAATPSRSTWEEEDSGYGSS
RRSQWESPSPTPSYRDSERSHRLSTRDRDRSVRGKYSDDTPLPTPSYKYNEWADDRHLGSTPRLSRGRGRREEG
EEGISFDTEERQQWEDDQRQADRDWYMMDEGYDEFHNPLAYSSEDYVRRREQHLHKQKQKRISAQRRQINEDNE
RWETNRMLTSGVVHRLEVDEDFEEDNAAKVHLMVHNLVPPFLDGRIVFTKQPEPVIPVKDATSDLAI IARKGSQT
VRKHREQKERKKAQHKKHWELAGTKLGDIMGVKKEEEPDKAVTEDGKVDYRTEQKFADHMKRKSEASSEFAKKKSI
LEQRQYLP IFAVQQELLTIIRDNSIVIVVGETGSGKTTQLTQYLHEDGYTDYGMIGCTQPRRVAAMSVAKRVSEE
MGGNLGEEVGYAIRFEDCTSENTLIKMTDGILLRESLREADLDHYS AIIMDEAHERSLNTDVLFGLLREV VARR
SDLKLIVTSATMDAEKFAAFFGNVPIFHIPGRTPVDILFSKTPQEDYVEAAVKQSLQVHLSGAPGDILIFMPGQ
EDIEVTS DQIVEHLEEL ENAPALAVLP IYSQLPSDLQAKIFQKAPDGVRKCIVATNIAETSLTVDGIMFVIDSGY
CKLKVFNPRI GMDALQIYPISQANANQSRGRAGRTGPGQCFRLYTQSAYKNELLTTTVPEIQRTNLANV VLLLKS
LGVQDLLQFHFMDPPP PEDNMLNSMYQLWILGALDNTGGLTSTGRMLMVEFPLDPALSKMLIVSCDMGCSSEILLIV
SMLSVP AIFYRPKGREEESDQIREKFV PESSDHLTYLN VYLQWKNNYSTIWCNDHFIHAKAMRKVREVRAQLKD
IMVQQRMSLASCGTDWDIVRKCICAAYFHQA AKLKGIGEYVNIRTGMPCHLHPTSSLFGMGYTPDYIVYHELVMT
TKEYMQCVTAVDGEWLAELGPMFYSVKQAGKSRQENRRRAKEEASAMEEEMALAEQLRARRQE QEKRSPLGSVR
STKIYTPGRKEQGEPMTPRRTPARFGL

ATTGGGCTGTTGAGCGGGGGCCGACCGACGGCCAGGAGTTTCTTTTCTGCGCTTGTCGCTTTTCTGTTCCGGTTTC
CTTCCCCTAGCGGGGCCACGAGGGTTGCTAGGCAACAGCCCCTGGGTGACTTGGTCTTAGGGTCTGTCCGGCT
TGGGGCTGATGAAAGGAGCTGTCCGCGCCCGGGCTCTTCCGAGAAGTGGTTGCTGACAGCCACAAAGTGAAAGGG
AGTGAGGCGGCGTGGACGAGTAAGGAGTGACAGTGAGGATTACATTGGGTTATTTCAGATGAGCTTCTACT
GCCCCAGCTGACTAGCAAAAAGGAAGTAGACCAGGCGATAAAAAGTACTGCTGAGAAGGTGTTGGTTCTCAGGTT
TGGGAGAGATGAAGATCCTGTCTGTCTGCAGCTAGATGATATTCTTTCTAAGACCTCTTCTGACTTAAGTAAAA
GGCTGCTATATACCTGGTGGATGTGGACCAAACCTGCAGTTTATACACAGTATTTTGACATCAGTTATATTCCAIC
TACTGTCTTTTTCTTCAATGGGCAGCATATGAAAGTGGATTATGGATCTCCAGATCACACTAAGTTTGTGGGAAG
CTTCAAACCAAACAAGACTTCATAGATTGATTGAAGTAATCTATCGAGGAGCAATGAGGGGGAAGCTTATTGT
CCAAAGTCTTATTGATCCCAAGAATATTCCCAAATATGACCTTCTCTATCAAGACATTAGTACATTAAATTGCTG
TCAAAGATGAAGAAGAAGGCACATCTTGACACAGTACCTGAATCCAGCTGTGCTGTGTTTCTGGAGTCTTTTGA
AACATGTGTCCAGAGGAGAAGAGGTTTGACTTGCGTGTAGAAAACCCGGCCCCCTGAGGAAAAGACCCCACTGGT
TCTCTGATGACCTGGGATGCCTAACCTGTCTACTCCCTGCAAGCCTCAGAGCAGCCAAGTCATTGGTGTTCATTTT
CCCCACAGTGATTTTTTGTAACTTCTCTTTCTAATGTTTTTCTTTATCCCTTTAATACAGAACCCTCCCAAACATT
GGCTAGTACAACCTTGATTTTCATCATGTTCAATTTGATACACAAGTGAACCTGGAAAGTCACTTCCCATAGAAGCAAA
AGTACTTATTTTCTACCCTAGCTGGGTGCATGTGTGTGCACACACACACACACACACACACCCCCACACCCCTTTGC
CGGTTCCCTCGACTCATACATCCCTCGTGCTTTCCCATCTCCAGTCTGTATTACTGTAGGTTCTCTTCAAATAATT
AATTGAGCAGACAAGTTTGTTTTATTTTGGAGCCTTTTTGGCTCTGGCTTTTAAACATTGTCCTGGTTGGCTCAT
TTAATTTTTTTTTTTTTTTTTTGTAGACCGAGTCACTCTTGTCACCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTC
ACTGCAAGCTCCACCTCCGCGGTTCAIGCCATTCTCCTGCTTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCC
GCCACCATGCCAGCTAATTTTTTGTATTTTATAGAGGCGCAGTTTACCCTGTTAGCCAAGATGGTCTCGATC
TCCTGACCTCGTGATCTGCCCTCCTCAGCCTCCAGGTGCTGGGATTATAGGCGTGAGCCACCGCGCGCACCCCA
TTAATTATTTTTTATGTTATAAAATTTAATATGGAAGTGAGAATTTGAACCTTACCATCCACCACTCTATTG
AGGTAACAATGAATGAGCCACCTTAGCAGGAGCAGATTTTCCGAGAAGCTGCTGCCTCTTCTGAGGCAGAA
AATTGGATTACTAAGGCTCAAACTAAAGAGATGTCAGCATTGTTGGATAGAAATGTCACCTATATGGGATTG
CCTGTTTTAATAACTTTGTAAGGAATTTTGCTCTTCTAGGGGTGCCGCGCAACCGTGGGCAAGTTACTGCTC
CTCTTTAAACCTCGTGGTGGTTATTGAAACAGATTTATTAGAAGGAGAGGGTAGGTGACAGCTGGAGAGCCATG
GGTGAGGCAGCTTGTCAGCTGCCCTAGCAGCGGCTGACCACCTCTCCAACAGAAGCCTAGTCTGTTTACAGAGCAGC
ACTGTCACTGCAAGTCCAGTCCGCCCCCTTTGCGAGGGGCTCCATTCCACCCCTTTCTGTCAGGAGGGGTGCCATGAG
TCTTGCTTTTGGCTCATACAGGAGAGAGGGAAGGCTGCCAGGCATGCTGTGATCTGCTGATAGAGAGGGA
GTCACCTCCAGGAATAAGACAAAAGGAGAGGAGGAGGCCATCACCTCTGGCCTCTTCCATCGTACACTTCTCTGTCT
CTGGTTTAAATCATGATGCATGGAGCTACAACAGCCATCTTAGGTCCCGAGGTGCCAGCATCACGTAAGAACATC
GATATGCTAAGAAGAACAAAAGAGCCCAATCTCTGATGTTATTGAGCTCCTGCATGAACCTGAGCCTGCCTGC
CTCAGACTTCTGTGAAAGAATAAAATTTCTTTTTTGCTTAAAAA

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FIGURE 4595

MSFLLPKLTSKKEVDQAIKSTAEEKVLVLRFGREDEPVCLQLDDILSKTSSDLKMAAIYLVVDVDTAVYTQYFDI
SYIPSTVFFFNGQHMKVVDYGSPDHTKFVGSFKTKQDFIDLIEVIYRGAMRGKLIVQSPIDPKNIPKYDLLYQDI

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FIGURE 4596

CTCTTCCAGAGGCAAGACCAACCAAGATGAGTGCCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTT
TTGCAGTGGACTCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCCGAAGCCCCCGAGATTGCACATG
GCTATGTGGAGCACTCGGTTTCGCTACCAGTGTAAAGAACTACTACAACTGCGCACAGAAGGAGATGGAGTATACA
CCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCCTGAATGTGAAGCAGATGACGGCT
GCCCCGAAGCCCCCGAGATTGCACATGGCTATGTGGAGCACTCGGTTTCGCTACCAGTGTAAAGAACTACTACAAAC
TGCGCACAGAAGGAGATGGAGTGACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAAC
TTCTTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACC
TGGATGCCAAAGGCAGCTTTCCTGGCAGGCTAAGATGGTTTCCCACCATAATCTCACCACAGGTGCCACGCTGA
TCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTCTTCTGAACCATTGAGAAAATGCAACAGCGAAAGACA
TTGCCCTACTTTAACACTCTATGTGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTTGTTCTACACCCTAACT
ACTCCAGGTAGATATTGGGCTCATCAAACTCAAACAGAAGGTGTCTGTTAATGAGAGAGTGATGCCCATCTGCC
TACCTTCAAAGGATTATGCAGAAGTAGGGCGTGTGGTTATGTTTCTGGCTGGGGGCGAAATGCCAATTTTAAAT
TTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCA
CAGTCCCCGAAAAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCCATACTGAATGAACACACCTTCTGTGCTG
GCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTTACGACCTGGAGGAGG
ACACCTGGTATGCGACTGGGATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGG
TGACTTCCATCCAGGACTGGGTTTCAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAAGCCCTTGCCTG
AAAGCAAGATTTTCAGCCTGGAAGAGGGCAAAGTGACGGGAGTGGACAGGAGTGGATGCGATAAGATGTGGTTTG
AAGCTGATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATAAAGAGCTTCTTTTGACCCA

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FIGURE 4597

ATGCTGTCTGTGTGTGTCTCCGCGGCCGTAGCCCGTGACCTCACTCGTAAGGAAGGAGGTATAGTGAAGAGGACA
GGAACCATTGTGGACGTTCCAGTCGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGAATGCTATTGAT
GGAAAGGGTCCAATGGGTTCCAAGACCCATAAAATCATTCCCTCGAACTTCAGTGTGGGAACCAATGCCGACTGGC
ATTAAGGCTGTGGATAGCTTGGTGCCAATTGGTTCGTGGTCAGCATGAGCTCATTATTGGTGACCGAAGGACTGGG
AAAACCTCAATTGCTATTGACACAATCATTAAACCAGAAACATTTCAATGATAGATCTGAAGAAAAGAAGAAGCTG
TACTGTATCTATGTTGCTATTGGTCGAAAGAGATCCACTGTTGCTCAGTTGGTGAAGAGACTTACAGATGCAGAT
GCCGTGAAGTACACCACTGTGGTGTGAGCTATGGCCTCAGATGCTGCCCTACTTCAGTACCTGGCTCCTTACTCT
GACTGTTCCATGGGAGAGTATTTTAGAGACGATGGCAAATATACTTTGATCATCTATGACGACTTATCCAAACAG
GCTGTGCTTACTGTGAGATGCTCTGTTGCTCCACCGACCCCCCTGGTCGACTATGAAGCAGGCGGCAGGTACC
ATGAAGCTGGAATTGGCTCAGGATCGTGAGGTTGCTGCTTTTGCCAGTTTGTTCTGACCTCAATGCTCCCACT
CAACAACCTATTGAGTCGCGGTGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATCCTCCCATGGTTACTGAA
CAACAAGTGGCTGTTATCTGTGCGGGTGGAGAGAAATATAGAGGACATTCCAAAGGAAGTGTGACAGACTGCGCC
CACCTTGTGAAGGCCAATAGCACTCAAGGCTGCAAGAACAACGTTAATGTGGTAAATACTCCACGGTCTAACCTG
AAGAAAACAGCTGACGTGGATGTGAGGCAGATAGGCTTTTACAGGCAGAAGGATGTAAAAATTGTGACAATGGAG
AAGAAAAGAGGATTCTAGCTCATATTTGGAACAAGGAAGTTCAAGATCTCATCCGGGACTATCTGGAAGAAGGA
AAGAAGTGGTGGATTGGGCAAAATGTAATGCCATTGAAAAAGCATCAAGACAACAAATACCCAGCAGACGTTGCA
GCCAACGGGCCCCCAAAGCCCCCTCAGCTGCACCTACCTGICCGAACTTCATTTCGGATCTCATCCAAAGGGGAC
AAGTGCTTACTGAAATACTATTTCATTGCGCAGACTGGTGACTTTTGGACGGAGATGCCCATTTATGAAAGAAAT
GGAAATAATTCCCATTGTACCAGAGACACAAGAAGACAAAAAGAGGAGTTGCAATAGCAAGAGACAAAATGCCC
CCAGACTTTCAGGATCATGTGATTCTGGCCAAGAAATAAAAGCAAAATCATTTTATTTCCCAAGTGGATTCCGGAT
GAAACCGGTGATAAAATCAGGTACAACCTCCAAGAGGAGACACTGGAGAACAGGCATGCTGGGTCTGTAA

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FIGURE 4598

MLSVCVSAAVARDLTRKEGGIVKRTGTIVDVPVGEELLGRVVDALGNAIDGKGPMGSKTHKIIPRTSVWEPMPTG
IKAVDSLVPIGRGQHELIIGDRRTGKTSIAIDTIINQKHFNDRSEEKKLYCIYVAIGRKRSTVAQLVKRLTDAD
AVKYTTVVSAMASDAALLQYLAPYSDCSMGEYFRDDGKYTLIIYDDLKQAVAYCQMSLLLHRPPWSTMKQAAGT
MKLELAQDREVAFAQFGSDLNAPTQQLSRGVRLTELLKQGQYPPMVTEQQVAVICAGGENIEDIPKEVLTDC
HLVKANSTQGCKNNVNVVNTPRSNLKKKTADVDRQIGFHRQKDVKIVTMEKKRGFLAHIWNKEVQDLIRDYLEEG
KKWWIGQNVMLKKKHQDNKYPADVAANGPPKPLSCTYLSRNFIRISSKGDCLLKYYFICQTGDFLDGDAHYERN
GNNSHLYQRHKKTKRGVAIARDKMPPDFQDHVIPGQEIKAKSFYSPVDSDETGDKIRYNSKRRHWRTGMLGL

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FIGURE 4599

CTGTGGCTGGCCTCCCCGCGCCAGAGCGAAATTAAGGGCATGCCCCAGCAGCTGACTCAGTCGGCGTGGCGCT
TCCCCAACGTCTGCCGTGCCCCGCCGCGGAAGTAGTCCCCGGCCGCGCCGACTCCAAAGGAAACCGAGGGAG
GGTGGCCCCGAGTCAGCGCGTGGGTCCCGGCAGCGCGATCGCGCAGCCAATCCCTGGAAAGGAGGGCGTGGCTAT
ATCGGGCCCCGTGGATCCCTCCGCCGCGCTTGTGTGCTGAGGGCCAGGGAGTCGCCATTTTGGATGGTGAACCC
TGAAGTCGGTGTCTGCTGCGTTACGGCAGGATTGCGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTA
AAGCTGAGCGCTTAAGAGTGAATTGAGATTAGTCATAAATCGCCTTAACTATTGGAGAAAAAGAAAACGGAAC
TGGCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGG
AGCACATTATCCGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGGCTC
GGTTTGGCCTTATCCAGTCTATGAAGGAAGTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCTGGGCTG
CTCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAGCAAGGAAT
ATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCC
CACCCAAAATCCTGGTGGAGAGATACCTGATTGAAATGCAAAGAATTACAACGTACCCATGAACCTGACTCTG
TGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGATTACAGATGATGTGAAGAAAG
GAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCACCAGTTGGTGGACCTGATGGAACGGTGCCAATGCCCA
TGCCCATGCCCATGCCTATGCCATCTGCAAATACGCCTTTCTCATATCCACTGCCAAAGGGACCAGTAGATGACA
TTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGGTCTGGACCCAAGCCAGAAGCCTCTGCAAAGCTTC
CTTCCAGACCTGCAGATAACTATGACAACTTTGTCTTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTG
CATCTGCTGGTGCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGGAGGTTTGAAGAGCTGA
AAAAGAAAACATAGGTCTCTTAAACCAGGCAACTTTACGTTTTTGGGAGTTGAGACTGAGCAATTTCTCCTTGTA
ACAAAGAATCTCCATGAAATTCTGTTTCATCTGTTAACCGTCACTCAGCACAACTCCCTCTGGGCTCTCTTCC
TGCTCCTCCAGATTCTGCTGCTTTCCAGTTCTCTGTTGATCCTGAGACTAACAATTGGAGACTGAGGCCAGAGCA
ACTGGCTCCTGGCAGCTGTGCTTGTCCGTTTTCTGTGAGAGTGATCCCAGGTTTTCTCCTGGCCCCGTCCCATGGT
CCCTCCACAGGAGTGTGAGAGGATGGGGGAAGCACTGTGGGAAGACCACCAAAGATGGCTGGACAGTGGGAGAGA
GCACGTTGTGAAGCATCCCAGCCTCGTGTGAGGTTCCAGACTTAGAAACAGACCCCTCTGTACAGGGGGATTGT
GGTGAGTGAGAATCAAGGCCACCTTGTGTGTTTTCTCACTCTCGAATGCAAGTGGGAGAGGGAAAATGACTCGGG
ACGCCATTGTAACGGTTCTTGAAGCTGGGCCCTCTCATTGGCATATACAGTACTCCTCGCTGCAGGGCACTGTC
CCACCGGGATCCAGTTGCAAAGTTTGTCTTGACAGTTGAAGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGCC
CTCTGTGGCCTTTTGTCTTTCGTGCTGTTTCCCTTGTAACAGAGGGCGGCACCGTGGAATTTCTGTTTTCCCTGT
AGCATATTGTGTTGGATTGCATTACTGGCAGAGAAAGGACAAGGTGCCATTCAAGTCCTAGGGTGGGCTTCCAGC
TGCCCTAATAGAAGTACTCAAGTCTTTTGGGTAGTGAGCTGGAAAGCCTACAGGAAAAGAGGGGTACCTGTTTTT
ATTTGAAAACCTTTGATTGATGGAACCTTTAAACTAATCTCAGAAAAATTTTGGTGCCCATGCAGCTGTAGTTG
TTCACTGCTTTTCTGGATGGATGGGACTCTTATGTCATAACTTCTGTTACTCCTTTGGCCCATAGCTAAGGTCAT
CCTTCCCCACAGGGGTGGCTTTGGGATTGGATGATACAGCTTTTGCTTCTGTGTAGTATACCTGTACATACTTGT
TTCAGGCAGCCTTTCTTTAATGTTTTTCAGTTGGTTTGTATTCTGTAGCTCAGTAGCTGCTAATAAAGTTAAAGAT
CCTGTG

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FIGURE 4600A

CGGCGCTGAGTGACCCGAGTCGGGACGCGGGCTGCGCGCGGGACCCCGAGCCCAAACCCGGGGCAGGCGGGC
AGCTGTGCCCCGGGCGGCACGGCCAGCTTCCTGATTTCTCCCGATTCTTCTTCTCCCTGGAGCGGGCCACAATG

TCCACCACGGTCAATGTAGATTCCCTTGCGGAATATGAGAAGAGCCAGATCAAGAGAGCCCTGGAGCTGGGGACG
GTGATGACTGTGTTACGCTTCCGCAAGTCCACCCCGAGCGGAGAACCCTCCAGGTGATCATGGAGACGCGGCAG
GTGGCTGGAGCAAGACCGCTGACAAGATCGAGGGCTTCTTGATATCATGGAAATAAAAGAAATCCGCCCAGGG
AAGAACTCCAAAGATTTCGAGCGAGCAAAAGCAGTTCCGCAGAAAGAAGACTGCTGCTTCACCATCCTATATGGC
ACTCAGTTCTGCTCCTCAGCAGCTCAGCTTGGCAGCTGACTCTAAAGAGGATGCAGTTAACTGGCTCTCTGGCTTG
AAAATCTTACACCAGGAAGCGATGAATGCGTCCACGCCACCATTATCGAGAGTTGGCTGAGAAAGCAGATATAT
TCTGTGGATCAAACCAAGAAGAACAGCATCAGTCTCCGAGAGTTGAAGACCATCTTGCCCTGATCAACTTTAAA
GTGAGCAGTGCCAAGTTCTTAAAGATAAGTTTGTGGAATAGGAGCACACAAAGATGAGCTCAGCTTTGAACAG
TTCCATCTCTTCTATAAAAACTTATGTTTGAACAGCAAAAATCGATTCTCGATGAATTCAAAAAGGATTCTGCC
GTGTTTCACTCTGGGGAACACTGACAGGCCGATGCCTCTGCTGTTTACCTGCATGACTTCCAGAGGTTTCTCATA
CATGAACAGCAGGAGCATTGGGCTCAGGATCTGAACAAAGTCCGTGAGCGGATGACAAAGTTTATTGATGACACC
ATGCGTGAAACTGCTGAGCCTTTCTTGTGTTGTGGATGAGTTTCTCAGTACCTGTTTTACAGAGAAAACAGCATC
TGGGATGAGAAGTATGACGCGGTGGACATGCAGGACATGAACAACCCCTGTCTCATTACTGGATCTCCTCGTCA
CATAACACGTACCTTACAGGTGACCAGCTGCGGAGCGAGTCTGCTCCCAAGCTTACATCCGCTGCCTGCGCATG
GGCTGTGCTGCATTGAACTGGACTGCTGGGACGGGCCGATGGGAAGCCGGTCTATCTACCATGGCTGGACGCGG
ACTACCAAGATCAAGTTTGACGACGTCTGTCAGGCCATCAAAGACCACGCCTTTGTTACCTCGAGCTTCCAGTG
ATCCTGTCCATCGAGGAGCACTGCAGCGTGGAGCAACAGCGTCAATGGCCAAAGGCCTTCAAGGAAGTATTTGGC
GACCTGTGTTGACGAAGCCACGGAGGCCAGTGCTGACCAGCTGCCCTCGCCAGCCAGCTGCGGGAGAAGATC
ATCATCAAGCATAAGAAGCTGGGCCCCGAGGCGATGTGGATGTCAACATGGAGGACAAGAAGGACGAACACAAG
CAACAGGGGGAGCTGTACATGTGGGATTCCATTGACCAGAAATGGACTCGGCACTACTGCGCCATTGCCGATGCC
AAGCTGTCTTCAGTGATGACATTGAACAGACTATGGAGGAGGAAGTGCCCCAGGATATACCCCTACAGAACTA
CATTTTGGGGAGAAATGGTTCCACAAGAAGTGGAGAAGAGGACGAGTGCCGAGAAGTTGCTGCAGGAATACTGC
ATGGAGACGGGGGGAAGGATGGCACCTTCTGGTTCCGGGAGAGCGAGACCTTCCCAATGACTACACCCTGTCC
TTCTGGCGGTGAGGCCGGGTCCAGCACTGCCGATCCGCTCCACCATGGAGGGCGGGACCCTGAAATACTACTTG
ACTGACAACCTCACCTTCAGCAGCATCTATGCCCTCATCCAGCACTACCGCGAGACGCACCTGCGCTGCGCCGAG
TTCGAGCTGCGGCTCACGGACCCCTGTGCCCAACCCCAACCCCAAGAGTCCAAGCCGTGGTACTATGACAGCCTG
AGCCGCGGAGAGGCAGAGGACATGCTGATGAGGATTCCCCGGGACGGGGCCTTCTGATCCGGAAGCGAGAGGGG
AGCGACTCCTATGCCATCACCTTCAGGGCTAGGGGCAAGGTAAAGCATTGTGCGATCAACCGGGACGGCCGGCAC
TTTGTGCTGGGGACCTCCGCTATTTTGTAGAGTCTGGTGGAGCTCGTCAGTTACTACGAGAAGCATTCACTCTAC
CGAAAGATGAGACTGCGCTACCCCGTGACCCCGAGCTCCTGGAGCGCTACAATAIGGAAAGAGATATAAACTCC
CTCTACGACGTGAGCAGAATGTATGTGGATCCCAAGTGAATCAATCCGTCCATGCCTCAGAGAACCCTGAAAGCT
CTGTATGACTACAAAGCCAAGCGAAGCGATGAGCTGAGCTTCTGCCGTGGTGCCCTCATCCACAATGTCTCCAAG
GAGCCCGGGGGCTGGTGGAAAGGAGACTATGGAACAGGATCCAGCAGTACTTCCCATCCAACCTACGTCGAGGAC
ATCTCAACTGCAGACTTCGAGGAGCTAGAAAAGCAGATTATTGAAGACAATCCCTTAGGGTCTCTTTGCAGAGGA
ATATTGGACCTCAATACCTATAACGTCTGTAAAGCCCCCTCAGGGAAAAAACAGAAAGTCTTTGTCTTCATCCTG
GAGCCCAAGCAGCAGGGCGATCCTCCGGTGGAGTTTGCCACAGACAGGGTGGAGGAGCTCTTTGAGTGGTTTCAG
AGCATCCGAGAGATCACCTGGAAGATTGACACCAAGGAGAACACATGAAGTACTGGGAGAAGAACCAGTCCATC
GCCATCGAGCTCTCTGACCTGGTTGTCTACTGCAAAACCAACCAGCAAAACCAAGGACAACCTTAGAAAACTCTGAC
TTCCGAGAAATCCGCTCCTTTGTGGAGACGAAGGCTGACAGCATCATCAGACAGAAGCCCGTCGACCTCCTGAAG
TACAATCAAAGGGCCTGACCCGCTCTACCCAAAGGGACAAAGAGTTGACTCTTCAAACCTACGACCCCTTCCGC
CTCTGGCTGTGCGGTTCTCAGATGGTGGCACTCAATTTCCAGACGGCAGATAAGTACATGCAGATGAATCACGCA
TTGTTTTCTCTCAATGGGCGCACGGGCTACGTTCTGCAGCTGAGAGCATGAGGACAGAGAAATATGACCCGATG
CCACCCGAGTCCAGAGGAAGATCCTGATGACGCTGACAGTCAAGGTTCTCGGTGCTCGCCATCTCCCAAACTT
GGACGAAGTATTGCCTGTCCCTTGTAGAAGTGGAGATCTGTGGAGCCGAGTATGACAACAACAGTTCAAGACG
ACGGTTGTGAATGATAATGGCTCAGCCCTATCTGGGCTCCAACACAGGAGAAGGTGACATTTGAAATTTATGAC
CCAAACCTGGCATTCTGCGCTTGTGGTTTATGAAGAAGATATGTTACGCGATCCCAACTTTCTTGCTCATGCC

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FIGURE 4600B

ACTTACCCCATTAAGCAGTCAAATCAGGATTGAGTCCGTTCTCTGAAGAATGGGTACAGCGAGGACATAGAG
CTGGCTTCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCCTGGAGAGCGAAGAGGAACCTTTACTCCTCCTGTCGC
CAGCTGAGGAGCGGCAAGAAGAACTGAACAACCAGCTCTTTCTGTATGACACACACCAGAACTTGCGCAATGCC
AACCGGGATGCCCTGGTTAAAGAGTTCAGTGTTAATGAGAACCAGCTCCAGCTGTACCAGGAGAAATGCAACAAG
AGGTTAAGAGAGAAGAGAGTCAGCAACAGCAAGTTTTACTCATAGAAAGCTGGGGTATGTGTGTAAGGGTATTGTG
TGTGTGCGCATGTGTGTTTGCATGTAGGAGAACGTGCCCTATTCACTCTGGGAAGACGCTAATCTGTGACATC
TTTTCTTCAAGCCTGCCATCAAGGACATTTCTTAAGACCCAACCTGGCATGAGTTGGGGTAATTCCTATTATTTT
CATCTTGGACAACCTTTCTTAACCTATATTCTTTATAGAGGATTCCCCAAAATGTGCTCCTCATTTCCTGCTCTC
ATGTTCCAAACCTCATTGAATAAAAGCAATGAAAACCTTG

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FIGURE 4601

MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKTADKIEGFLDIMEIKEIRP
GKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSKEDAVNWLSGLKILHQEAMNASTPTIIESWLKQI
YSVDQTRRNSISLRELKTIPLINFKVSSAKFLKDKFVEIGAHKDELSFEQFHLFYKKLMFEQQKSILDEFKKDS
SVFILGNTDRPDASAVYLHDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRETAEPFLFVDEFLTLYLFSRENS
IWDEKYDAVDMQDMNNPLSHYWISSSHNTYLTGDQLRSESSPEAYIRCLRMGCRCIELDCWDGPDGKPVIIYHGT
RTTKIKFDDVVQAIKDHAFTSSFPVILSIEEHCSVEQQRHMAKAFKEVFGDLLTKPTEASADQLPSPSQLREK
IIIKHKKLGPRGDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEVFPQDIPTE
LHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTFLLVRESETFPNDYTLSEFWSGRVQHCIRSTMEGGTLKYY
LTDNLTFSSIIYALIQHYRETHLRCAEFELRLTDPVPNPNPHESKPWYDLSLRGEAEDMLMRIPRDGAFLIRKRE
GSDSYAITFRARGKVKHCRINRDGRHFVLGTSAYFESLVELVSYEKSLSYRKMRLRYPTPELLERYNMERDIN
SLYDVSRMYVDPSEINPSMPQRTVKALYDYKAKRSELSFCRGALIHNVSKPEGGWKGDYGTIRIQYFPSNYVE
DISTADFEELKQIIEDNPLGSLCRGILDNLNTYNVVKAPQGKNQKSFVFILEPKQQGDPPEFATDRVEELFEWF
QSIREITWKIDTKENNMKYWEKNQSI AIELSDLVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKPVDLL
KYNQKGLTRVYPKGQRVDSSNYDPFRLWLCGSQMVALNFQTADKYMOMNHALFSLNGRTGYVLQPESMRTEKYDP
MPPESQRKILMLTLVKVLGARHLPKLGRSIIACPFVEVEICGAEYDNNKFKTTVVNDNGLSPIWAPTQEKVTFEIIY
DPNLAFLRFVVEEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEEEELYSSC
RQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNNENQLQLYQEKCNKRLREKRVSNKSFYS

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FIGURE 4602

GGGCGGGCCCGCACCCCTGCGAACATGGCGCTGCGAGTGGTGC GGAGCGTGCGGGCCCTGCTCTGCACCCTGCGC
GCGGTCCCGTTACCCGCCGCGCCCTGCCCCGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGC
ACTGGACCCGCTCTGCTCTCGGTGCGTAAATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGA
ACAGTGGGAATCAGCAATTTTGCACAGGAAGCGTTGGGAGATGTTGTTTATTGTAGTCTCCCTGAAGTTGGGACA
AAATTGAACAAACAAGATGAGTTTGGTGCTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCA
GGAGAAGTAACAGAAATTAATGAAGCTCTTGCAGAAAATCCAGGACTTGTAACAAATCTTGTTATGAAGATGGT
TGGCTGATCAAGATGACACTGAGTAACCCCTTCAGAACTAGATGAACCTATGAGTGAAGAAGCATATGAGAAATAC
ATAAAATCTATTGAGGAGTGAATAAGAACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTC
TTAAATTAGTGGTGGATAGAAGACTTAGAATAGAACTTTTAGTATTACCGATGGGGAAAAAAAAAACTACTGTTA
ACACTGCTAATGAAAGAAAATGCCCTTTAACTTTCTAATGATTATAGATAAATAATAATATGCGTCTTTTTTCACAA
TATCCTATGATTTTGTAGACTAGGCTCTAGTGTTTCAGAAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAA
ATTACATAATTCAAAGATAACATTGTTATTCTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGG
ATTTGGGATGAAATACTTAATGATCTTTCCATTGGAAATAACTGGAAGTGAAGAGGTTTTGTTGCTTGTACAGTG
TCAGATGAGGAACACCACTATCTTAATTTTGCATACACTGCATTTGCTGGTGCTATTTTTATACAGTGAAGCAA
CAGCTTTGCAGCAAAATAATAAAATACTTCTTCGTT

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FIGURE 4603

MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRILRTGPALLSVRKFTTEKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVKNKSCYEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 4604

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTCGGCGTCTGGCAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCCTCCGGTGTGGCCACGAGTCGGGTTGCACTGC
TGTGATCCATCCTCATCTCCTAAAGATGCATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAACCTTGCTTAAGGAATGTCACAAAAATCACAACTTCTGAAATTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAACTTTTTAATCCTCCAGAGGAATCCGAAAAATAAATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCCTTTGCCTACAACCAGTTAATATCTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAAA

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FIGURE 4605

MHPDLSPHLHTEECNVLINLLKECHKNHNI LKFFGYCNDVDRELKCLKNEYVENRTKSREHGIAMRKKLFNPPE
ESEK

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FIGURE 4606

GCGCAGGCGCGGCGGCCGATGCGAGTGTGTATGTGCGGGCGAGAAGATGGCGGCGGCGGGGGAAGCAGCGTGAGC
AGCCGGAGGATCGCGGAGTCCCAATGAAACGGGCAGCCATGGCCCTCCACAGCCCGCAGTATATTTTTGGAGATT
TTAGCCCTGATGAATTCAATCAATCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCCTCCATACAGTGGAACAG
TTCTGTGTGGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAGTTTGGTGTGATG
AAGTCATTGAACCCAGTGACACTTTGCCGAGAACCCCGAGCTACAGTATTTCAAGCACACTGAACCTCAGGCCC
CTGAATTTATTCTCGGTTGTACAGCTTCCAAAATAACCCCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCA
TCGACTGCCAGTACCCAGGCTCTGCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTGGAAAATG
ATGGTGTCTCAGGTGGTCTTGGACAAAGGGAGCGTAAAAAGAAGAAAAAGCGGCCACCTGGATATTACAGCTATT
TGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGGCCATGCCAATTCAGCAGTCCCGAACA
GTGTCAGTGACAGAGATGCAGAATTTATGGGTGACATGCCCCCGTCAGTTACGCCAGGACTTGTAACAGCCCCC
AGAACTCCACAGACTCTGTGTCAGTGACATTGTGCCTGACAGTCCCTTTCCCGGAGCACTCGGCAGTGACACCAGGA
CTGCAGGGCAGCCAGAGGGGGGCCCCGGGGCTGATTTGGTCAGTCCCTGCTTCCCTGCAGAGGCTGGCAGAGACA
CCCTGTCAAGGACAGCTGGGGCTCAGCCCTGCGTTGGTACCGATACTACTGAAAACCTTGGAGTTGCTAATGGAC
AAATACTTGAATCCTCGGGTGAGGGCACAGCTACCAACGGGGTGGAGTTGCACACCACGGAAGCATAGACTTGG
ACCCAACCAAACCCGAGAGTGCATCACCTCCTGCTGACGGCACGGGCTCTGCATCAGGCACCCCTTCTGTACGCC
AGCCCAAGTCCTGGGCCAGCCTCTTTTCATGATTCTAAGCCCTCTTCTCCTCGCCGGTGGCCTATGTGGAACTA
AGTATTTCCCTCCCGCCATATCTCCCTGGTTTTCTGAAAAGCAGGTTGAAGTCAAAGAAGGGCTTGTTCCGGTTT
CAGAGGATCCTGTAGCCATAAAGATTGCAGAGTTGCTGGAGAATGTAACCCTAATCCATAAACCAGTGTCGTTGC
AACCCCGTGGGCTGATCAATAAAGGGAAGTGGTGCTACATTAATGCTACACTGCAGGCATTGGTTGCTTGCCCGC
CGATGTACCACCTGATGAAGTTCAATCCTCTGTATTCCAAAGTGCAAAGGCCCTGTACGTCAACACCCATGATAG
ACAGCTTTGTTCCGCTAATGAATGAGTTCACTAATATGCCAGTACCTCCAAAACCCGACAAGCTCTTGGAGATA
AAATCGTGAGGGATATTGCGCCTGGAGCTGCCTTTGAGCCACATATATTACAGACTCCTGACAGTTAACAAGT
CAAGCCTGTCTGAAAAGGGTCGACAAGAAGATGCTGAGGAATACTTAGGCTTCATTCTAAATGGACTTCATGAGG
AAATGTTGAACCTAAAGAAGCTTCTCTCACCAAGTAATGAAAACTTACGATTTCCAACGGCCCCAAAAACCACT
CGGTCAATGAAGAAGAGCAGGAAGAACAAGGTGAAGGAAGCGAGGATGAATGGGAACAAGTGGGCCCCCGGAACA
AGACTTCCGTACCCGCCAGGCGGATTTGTTCAGACTCCAATCACCGGCATTTTGGTGGACACATCAGGTCTG
TGGTTTACCAGCAGAGTTCAAAAGAATCTGCCACTTTGCAGCCATTTTTCACGTTGCAGTTGGATATCCAGTCAG
ACAAGATACGCACAGTCCAGGATGCACTGGAGAGCTTGGTGGCAAGAGAATCTGTCCAAGTTATACCACAAAAA
CCAAACAAGAGGTTGAGATAAGTCGAAGAGTGACTCTGGAAAACTCCCTCCTGTCTCGTCTGCACCTGAAAC
GATTCGTTTATGAGAAGACTGGTGGGTGCCAGAAGCTTATCAAAAATATTGAATATCCTGTGGACTTGGAAATTA
GTAAAGAACTGCTTTCTCCAGGGGTTAAAAATAAGAAATTTTAAATGCCACCGAACCTATCGGCTGTTTGAGTGG
TCTACCATCACGGCAACAGTGCGACGGGCGGCCATTACACTACAGACGCTTCCAGATCGGTCTGAATGGCTGGC
TGCGCATCGATGACCAGACAGTCAAGGTGATCAACCAGTACCAGGTGGTGAACCAACTGCTGAACGCACAGCCT
ACCTCCTGTATTACCGCCGAGTGGACCTGTGTTAAACCCTGTGTGCGCTGTGTGTGCGCCAGTGCCCGCTTCGT
AGGACACCACCTCACACTCACTTCCCGCCTCTCTTTAGTGGCTCTTTAGAGAGAACTCTTCTCCCTTTGCAAA
AATGGGCTAGAATGAAAAGGAGATGCCTTGGGGTTCGTGCACAACACAGCTTCTGTTGACTCTAACTTCCAAATC
AAAATCATTGTTGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAAACCCATATTTCTGAAATAATGCT
GATTCCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAAC
ACTTGTAATTTGTGAAAATGAATTTTATCTTTCCCTTAAAAAAGAAATTTTAAATCCATCACACTTTTCTTCCC
TACCCTTTAGTTTTTGATAAATGATAAAATGAGCCAGTTATCAAAGAAGAACTAGTTCCTTACTTCAAAAGAAAA
ATAAACATAAAAAATAAGTTGCTGGTTCCTAACAGGAAAAATTTTAATAATTGTACTGAGAGAACTGCTTACGT
ACACATTGCAGATCAAAATATTTGGAGTTAAATGTTAGTCTACATAGATGGGTGATTGTAACCTTATTGCCATTA
AAAGATTTCAAATTGCATTGCTTCTGTGTACACATAATGAAAAATGGGCAAATAATGAAGATCTCTCCTTCA
GTCIGCTCTGTTTAAATCTGCTGTCTGCTCTTCTCTAATGCTGCGTCCCTAATTGTACACAGTTTAGTGATATCT
AGGAGTATAAAGTTGTGCGCCATCAATAAAAATCACAAAGTTGGTTT

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FIGURE 4607

MALHSPQYIFGDFSPDEFNQFFVTFRSSVELPPYSGTVLCGTQAVDKLPDQGEYQRIEFGVDEVIEPSDTLPRTP
SYSISSTLNPQAPEFILGCTASKITPDGITKEASYGSIDCQYPGSALALDGSSNVEAEVLENDGVSGGLGQRERK
KKKKRPPGYYSYLDGGDDSSISTEALVNGHANSAPNSVSAEDAEFMGDMPPSVTPRTCNSPQNSTDVSDIVPD
SPFPGALGSDTRTAGQPEGGPADFGQSCFPAEAGRDTLSRTAGAQPCVGTDTTENLGVANGQILESSGEGTATN
GVELHTTESIDLDPKPEASPPADGTGSASGTLVPSQPKSWASLFHDSKPSSSSPVAYVETKYSPPAISPLVSE
KQVEVKEGLVPVSEDPVAIKIAELLENTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMYHLMKFIPLYS
KVQRPCTSTPMIDSFVRLMNEFTNMPVPPKPRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAE
EYLGFIINLGLHEEMLNLKLLSPSNEKLTISNGPKNHSVNEEEQEEQEGSEDEWEQVGPRNKTSVTRQADFVQT
PITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDALESLVARESVMQGYTTKTKQEVEISRRTVL
EKLPPVLVLHLKRFVYEKTGGCQKLIKNIYPVDLEISKELLSPGVKNKNFKCHRTYRLFVAVYHHGNSATGGHY
TTDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYYRRVDLL

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FIGURE 4608

GGAAGCCGACGCCGCGCTCGCATGCTCGCAGGCGCCGCGTAGCCGTCGCCACCGCCGCCAGCCCGTGCGCCCTCG
GCGCGTACCCGCCGCGCTCCCATCCCCGCCGCCGAGGGGCGCGCTCGGCCGCCCGGACAGTGTCCCGCTGC
GGCTCCGCGCGGATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGGACGACGGC
TCGGCCGTCATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGGCGAGCAGGGAGCGGAGTACCAG
CACTTCATCCAGCAGTGCACAGATGACGTCCGGTTGTTTGCCTTCGTGCGCTTCACCACCGGGGATGCCATGAGC
AAGAGGTCCAAGTTTGCCCTCATCACGTGGATCGGTGAGAACGTCAGCGGGCTGCAGCGCGCCAAAACCGGGACG
GACAAGACCCTGGTGAAGGAGGTCTACAGAATTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAG
GAAGATTTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGAGCCAATTACGACGCCAGACGGAGTAACCCAGCCC
CCGCCACACCACCCCTTGCCAAAGTCATCTGCCTGCTCCCCGGGGGAGAGGACCGCCGCGCTCAGCTACTAGCCC
ACCAGCCCACCAGGGAGAAAAGAAGCCATGAGAGGCAGCGCCCGCCACCCTGTGTCCACAGCCCCACCTTCCCC
CTTCCCTTAGAACCTGCCGTGTCTATCTCATGACGCTCATGGAACCTCTTTCTTTGATCTTCTTTTCTTTTC
TCCCCCTCTTTTTTGTCTTAAAGAAAAGTCATTTTGATGCAAGGTCTGCCTGCCATCAGATCCGAGGTGCCTCC
TGCAGTGACCCCTTTTCTTGGCATTCTCTTCCACGCGACGAGGTCTGCCTAGTGAGATCTGCATGACCTCACGT
TGCTTTCCAGAGCCCGGGCCTATTTTGCCATCTCAGTTTTCCTGGACCCTGCTTCTGTGTACCACTGAGGGGCA
GCTGGGCCAGGAGCTGTGCCCGGTGCCTGCAGCCTTCATAAGCACACAGTCCATTCCCTACTAAGGCCAGACC
TCCTGGTATCTGCCCCGGGCTCCCTCATCCACCTCCATCCGGAGTTGCCTAAGATGCATGTCCAGCATAGGCAG
GATTGCTCGGTGGTGAGAAGGTTAGGTCCGGCTCAGACTGAATAAGAAGAGATAAAATTTGCCTTAAACTTACC
TGGCAGTGGCTTTGCTGCACGGTCTGAAACCACCTGTTCACCCCTCTTGACCGAAATTCCTTGTGACACAGAG
AAGGGCAAAGGTCTGAGCCCAGAGTTGACGGAGGGAGTATTTAGGGTTCACTTCAGGGGCTCCCAAAGCGACAA
GATCGTTAGGGAGAGAGGCCAGGGTGGGGACTGGGAATTTAAGGAGAGCTGGGAACGGATCCCTTAGGTTCAGG
AAGCTTCTGTGTAAGCTGCGAGGATGGCTTGGGCGGAAGGGTTGCTCTGCCCCGCCGCGCTAGCTGTGAGCTGAGC
AAAGCCCTGGGCTCACAGCACCCCAAAGCCTGTGGCTTCAGTCCTGCGTCTGCACCACACATTCAAAGGATCG
TTTGTTTTGTTTTTAAAGAAAGGTGAGATTGGCTTGGTTCTTCATGAGCACATTTGATATAGCTCTTTTCTGT
TTTTCTTGCTCATTTTCGTTTTTGGGGAAGAAATCTGTACTGTATTGGGATTGTAAAGAACATCTCTGCACTCAGA
CAGTTTACAGAAATAAATGTTTTTTTTTGTTCAG

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FIGURE 4609

MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGAEYQHFIQQCTDDVRLFAFVRFITGDAMSKRSK
FALITWIGENVSGLQRAKTGTDKTLVKEVVQNFKEFVISDRKELEEDFIKSELKKAGGANYDAQTE

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FIGURE 4610

GCGGCCGGCGGCGTCTCCTCCCGGGACGCTGAGGGGCCCCGAGGAGACCGTGAGGCTCTGGCCTGCAGCTCGCGCC
GCCATGGACGCTGCCGAGGTCGAATTCCTCGCCGAGAAGGAGCTGGTTACCATTATCCCCAACTTCAGTCTGGAC
AAGATCTACCTCATCGGGGGGGACCTGGGGCCTTTTAACCCCTGGTTTACCCGTGGAAGTCCCCCTGTGGCTGGCG
ATTAACCTGAAACAAAGACAGAAATGTCGCCTGCTCCCTCCAGAGTGGATGGATGTAGAAAAGTTGGAGAAGATG
AGGGATCATGAACGAAAGGAAGAACTTTTACCCCAATGCCAGCCCTTACTACATGGAACCTTACGAAGCTCCTG
TTAAATCATGCTTCAGACAACATCCCGAAGGCAGACGAAATCCGGACCCTGGTCAAGGATATGTGGGACACTCGT
ATAGCCAAACTCCGAGTGCTGCTGACAGCTTTGTGAGACAGCAGGAGGCACATGCCAAGCTGGATAACTTGACC
TTGATGGAGATCAACACCAGCGGGACTTTCCTCACACAAGCGCTCAACCACATGTACAAACTCCGCACGAACCTC
CAGCCTCTGGAGAGTACTCAGTCTCAGGACTTCTAGAGAAAGGCCTGGTGCAGGCGGCTTGCTGGGGGATGTGAG
CGCTCAGGATGTGATGAGGTACTCGTGGTTCTGGAGCTCTAGAAACACTTCTGATGCATGAAAAATGTGTGATGG
TGCAAGGAATGGATTCAGGATGTTGTTGGAGAAACAAGTTTGTGATTAGTCCTTAAAACTTAGCTCCCTGGGACA
TTCTTCAATTCCACATCTGTTTCTAGAAACCAGCCCTTTTCCCCCCTTTTGAGAAATAAAAAAGCCTTAGGT
AAATAAGTCATTCTCCCTAGCAGAGCCACTTGGGTCTCTGCATGGAAGCCGTCACACTTGGGCAGGTGTTTCAGT
GACTGGTAGGTGTAGATACAGCAGGAGTGGCCATGTGGTCCACGGCTTTTACCCCTTCTTGATCCTGATTTCTT
GGGCTGAATTTAGACTCTCTCACAGAGGTGGCTCACAGAGAAGGATGGCAGATGGTGCAGCCAACAATGCTGACC
GGTGCTTATCCTCTAAGCCCTGATCCACAATAAAAATGGACCCAACCTCAAAAAAAA

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FIGURE 4611

MDAAEVEFLAEKELVTIIPNFSLDKIYLIIGD LGPFNPGLPVEVPLWLAINLKQRQKCRLPPEWMDVEKLEKMR
DHERKEETFTPMPSPYYMELTKLLLNHASDNIPKADEIRTLVKDMWDTRIAKLRVSADSFVRQQEAHAKLDNLTL
MEINTSGTFLTQALNHMYKLRTNLQPLESTQSQDF

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FIGURE 4612

GGCACGAGGCTTCCCAGAGGCGCGAGTCGCTTTTCCAGGAGCCGAGGCCCAAACGGGGCCGGGCCTGAAGGGTCC
CCCGCCAGCCCGCGGCCGCGCCATCAATCGCCGCGCCTCGTCCCGCTTCTCGGCTGAGGCGCCGCGCGGCCAGG
CAGCGGGTCCAGGCCCTCAGCCGCGCGCCAGGGGCCCTCCGGGGCCCTCCCGGGTCAGCATGCCCGGGGTGAAACT
GACCACCCAGGCCCTACTGCAAGATGGTGCTGCACGGCGCCAAGTACCCGCACTGCGCCGTCAACGGGCTCCTGGT
GGCCGAGAAGCAGAAGCCGCGTAAGGAGCACCTCCCCCTGGGCGGCCCCGGCGCCACCACACCCTCTTCGTGGA
CTGCATCCCCCTCTTCCACGGCACCTGGCCCTCGCCCCCATGCTGGAGGTGGCTCTCACCTGATTGATTCATG
GTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGAGTAAAGGATGCCAGTCCAAACCA
GGTTGCAGAGAAGGTGGCCTCCAGAATCGCCGAGGGCTTCAGCGACACTGCGCTCATCATGGTAGACAACACCAA
GTTTACGATGGACTGCGTAGCGCCTACGATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCC
ACACCATGACTACTGTGAAGACTGGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCTACGA
GACGCTCGTGGATTTTCGATAACCACCTGGATGACATTCGGAATGACTGGACAAACCCAGAGATCAATAAAGCTGT
CCTACACTTGTGCTAGGCAGGCACCGCTGTGACTGGGCTCCGGGCCTTCCACTACGTTGAAGAAGAAAACCTAT
TTTAAATGTAAATAAAATATCTGGTAGCCTGTGTGAAAGCTGACCGTTTTAAGAAGTGGCATGTGCCTTGAAA
GGGGGCAGAATGTTTCAGTCGGTCTGTGTTTTAACACAGAGTCTCTAGAAGAGGTGCAGACATCCCGTCTGACTGT
CCCTGTGGACTCTCTCAGTTGTATGTTGCTATAATCTCCAAATCAAAGCTCTTCTGCTTGTGCAAGATTGTC
CTATTAAACAGTTTTAACTAACCTTTTATAATCTGGAGAGAATACTTTTAAAGGCTTTTGAATATCTTTTTTA
AAAAAAAAAAAAAGCCACATCTTATACTCCAATGAGTGTGTTTGTGAGTTTTATCCTGTTTGAATTTTGATGT
CGTCCAGGCGTCTCGGGATCAGGGTAGACACGTGGAGTGCTGGTGCTGAGCTGTTTGAGAAGCTCTGTGTGGGTG
TTCTGTGGTCAGGTAGGCTGGGCTGTGAACAGCACTGCTCCACATGGTGTCGGCTCACAGAGCCACCGCAACTC
TGCCAGCGGGAGTGACACCACIGATGCCACAGAAGCCTTATCGTTAGGGGCAAAGCAGACATCTCTGGTAGC
AGGAGCTCAGTGTGGTGCTCTTCAGCCACGCAGAAAGCTCACGTGCCCTGCAGGGCCAGGAAAGGGAAATGATCGT
TTCTTTTGTATTAGGAAAAACAAGACTTAGACTTCCCGAGTTGTGCAGAGTGACGTCTGTACTTTTTATACTTAG
AACATTTGGTCAAGTTTTGTAAACCAACCTTAGGGAATTGAGAGGGAACTTTATGGTACGTTTACCTTTTTTCC
TTTTTATATGAATTATTTTGTACAAAGTTTACAGAGAGCGGTACCTTTCTACTGTCTTTTCTTTGACTCCATGGAG
GAATTTGTAAACGATCGGTGTGACCTGAAAGGGTTTGTGATACAGCGGTCACTATTTCTCTTAACACATAGGAAA
AAAGTTCAGACATCGCTACAATAAATGTGCTTTATTTTGATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4613

MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHTLFVDCIPLFHGTLALAPMLEVAL
TLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFSDTALIMVDNTKFTMDCVPTIHVYEHENR
WRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC

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FIGURE 4614

CGACGTTTCGACGCGCTACCCCTTTCCGCTCCACGGTGACCTCCGTGCGGCCGGGTGCGGGCGGAGTCTTCCTCGA
TCCCGTGGTGCTCCGCGGCGCGGCCCTTGCTCTCTTCCGGTCGCGGGACACCGGGTGTAGAGGGCGGTGCGGGCGG
GCAGTGGCGGCAGAAATGTTGGCTACCAGGGTATTTAGCCTAGTTGGCAAGCGAGCAATTCCACCTCTGTGTGTG
TACGAGCTCATGAAAGTGTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCT
TGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGA
GCAGCCTCTCCATGGATGAGAAAGTCGAGTTGTATCGCATTAAAGTTCAAGGAGAGCTTTGCTGAGATGAACAGGG
GCTCGAACGAGTGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCACCGCGCTCGTTATCATGTGGC
AGAAGCACTATGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGC
TGGACATGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAGTGAG
AGATGCTGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTACCGCCATGCAACTCCATGCCTATTTACTGGAAACC
TGTTATGCCAAACAGTTGTACCCTGCTAATAAATGACCAGTTTACCTGAAA

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FIGURE 4615

MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLASQKALKEKEKASWSSL
DEKVELYRIKFESFAEMNRGSNEWKTVVGAMFFIGFTALVIMWQKHVYVYGPLQSFDEWVAKQTKRMLDMKV
NPIQGLASKWDYEKNEWKK

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FIGURE 4616A

GTTC TAGAACATTCTCATCCCCATATTTACATTTATTTTTAATAACTCTCATGTGTAAGCTGAGTGTTTTAAAC
TTTAGAGACTTCTGGGGGGTGCTGAACTTGATAAAAATATTCAGTATACAAGTGTCTTTATAGTCACTCATCA
TTTTCATAGAATTAGGGTTTTAAAATTAGAAAGTAATTTAGGCCATTTCCATCTCCTGTCCCTCAAATCCCAGCT
CAGTTTTGGGATGAGGTGTCAAGTATAAGTTTGAAGTATGCCAGTCATTTGCACGGCTAAGAGAAACATCTAGA
GAAGTCTATATACGACTTGCTTAAAGCTGAATGTTGATTTACTGTTTACATGATTGGGTGATTTAGTCACTGG
GACTGAGCTAATGGAGTTGAAGCATTGTTGCGGGCATTGTACCTCCAGACCAGTGTGTAATACAAAGAGTTCTTG
CAGACATAGGACAGAATTGGAGAAACAGCTTCTAACAGTGGGAAGACTCTCAGTACAACCAAGCTATTCCTTACC
TTTCTGATTTCTGAACTTTTTTCCATGTGATACCTGCTGCTTTGAAGGCACTAAAATAACAGAAGCAGATAGAGC
AGAAATCCTCACTCAGATCTTCTCCTTCTACCTGTATAACAGTTTGTGGCTTGCCTTGCTGTTTTGTGCGTT
TCGTTACGCGTATGTGAGTATGTGCACGTGATTTCCAGAAAGGAGAAGCGCACGATACTGCCCGTGTCTGTGAC
TCCTGAGTGCACGCTTCTCTGCATTTGGGCTCCTAGGTCGGCCTCGTCTGTGGACGTTGCCCTTGTTTTCGTG
CCATCCACACATTTCTGATGCCCCGCTGCTCTACTCTTTCTCCAGAGTACTTTTTCCAAACATGTGATTTGCACA
TTTGTATGTTTATTGTTTGTTCCTTCTAGAAGTGTGCCACTAGGCAGGAATGTTTGATTTGTCTACTGAT
GATCCAGATCTCTAGAACCCTGCCTTGCCGTGAGAGGGTGTGTTGTAATGTGCTCTGAATGAATGGCTCCATG
ATCCTCGTTTCTAAGAGCTAGCACGATTTCTCACTCAGTCCTGTTGGACACAGGTTCCCTGGAACAGTGCTGTT
GTGGTTATCTCTCACGTGCTTTGTTTCTGAACTTGAACGCTTTGAGTTTTTTATGTTTTTGTCTTCTCTCA
TTAGTTTGAGTCCCTTGACAGTAGGCTTTTCAATTTGTCCAGTCACCTGTTTCAAGGAGCCCTGAGGGCCTTGCCCC
ACGCTGCAGGTAACGTGTTTTTTATTTTTATTTTTATTTTGTAGACGAAGTCTCGCTCTGTCCAGGCTGG
AGTGCAGCGGTGCGATCTCAGCTCACTGCAACCTCCGCTCCTGCGTTCAAGCGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTGGGACTATAGGCAGTGCCGCCACGCCCCGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTCAC
CATGTTAGCCAGGATGGTCTCGATCTCCTGACATCGTGATCCGCTGCCTGGGCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACCGCGCCAGCCCTGCAGGTAAGTGAATGTAGGAAGTGCTGCCTCTGGGCACCTTGCCCC
AGGGTTCAATAGCAGTTGCCCTGGTGGGTTTTGTGGCTGTGATGAGAAGTGCTTCTGTTCCCTCCACCAC
ACTCCTGCAACTGTTTTAAACAGTGGCTGTGACCCCTGAGATGATCCAGGGTTTCAAGCGTGACATGTCTGTG
TTTCGGTTTTTCAGAAGTATCACCTTGGGGTGACTCTCAACTTACATGGATTTTTCAAAGATTTATTCAATATGTTT
TTCAGAAAGTGTGTGAAGAGCGAAGACTTTTCGCTCCAGCTTATATGGATCGGCGTGACCACCCCTTGCCGGA
GGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCATTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCT
CTCCATGGATGAGAAAGTCGAGTGTGGGTATTGAAGGGACCCACAGGCGCGCCAGCAGCTCTCGGAAGCGTGTG
TGTGACAGAGCCTCTGCTCACTTCTGGGCTACTGTCTAGAGGCAGTCTTGACAGGAGGGTTGCTCTGCTGGGT
TTCGGGGTCACTGTGCCAGGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTT
GCTAGGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATATCTGCTGGGTAAACATAGTTAACTGTAA
ATTATTGAAAGAAACTCAGCAAAATGCATAGTGTGTTGGTATGAAAGGGGCAGAAAAATAACAAGATTAAATAGAC
CCTAATACTGTAATTCAAGTAAGAAATAATTTTGCAGTTTTAATTTGCACCTGAAGCGAACTGTATGCATTTTCT
TCTTTCTTGCCTGTACATGCCGTGCGTGGGCACGTGTGTGCACGTACGTGCGTGAACATGATGTGGCCTGGGT
TGGTGTATCCTTCAGCTCTGTGTTTCTCTCTTCACAAGTGTGGTTTTGGGGAGAAGTGTTGAATGTTGCAGAGG
AGGGAGCTGTGACCTTTGTGCTGTAAATGGCTGTCTCTGCCCCCAGTGTATCGCATTAAAGTTCAAGGAGA
GCTTTGCTGAGATGAACAGGGGCTCGAACGAGTGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCA
CCGCGCTCGTTATCATGTGGCAGAAGCACTATGGTGAGTAGAGAGGGAGGAAGGCATGGGCGCCTGGACTGGGGC
TCCAGCCTGCAGTGCCATTGGTGGGCTGTGGGGACCTCCATACCTTGAGGCTATGAGATAGGGACTGCATTCC
AGAGTTCACTCAGGATTGTTTCCAGGCCTTGGTGACCTGGAGAACTGAAGTCTGTGGGAGGTTAGTTTATAAGCC
AGCATCTGATTATTATAGCCATGCTTGTGGGTGGTGAAATACCTTAACCTACTTTGTACAGCACACCAGTTTTT
CAGTAGCAATTTATGTGCTCACCAGTCACTTAGCGAAAGATGACTTCGTGAAGGTTTCAGCAAGGATAAGGGGAC
TCATTCAATGAATGACTGTCTGGACTGTTGTGAGGACTGCATCTCAACAGCCAGCATCTGGGGGTCCCGACCTGA
TAGTTTGTGTGTTGGGCATTGCCGGGTGCTCGCTCGTGGTAATGACTCTTCCCGAGGTTCTTTCTGTCCAGGCA
GAACAGGCATTTTTGCATTCTGAATAGGTATATTCTCGTACTTTTGGTTTGAATGTGGATGTGGGTTAATAACAG
ACCCGAATCTATTTGATCTTCCAGGTCACCTTGGGCTCTGTTTGTGATCCTGTTATCCATAGCCTTTAGAGAG
GACCTTCTGCTTTTAGCTTATTTTGTGCTAACTTTTTACAAACAAAGGGCTAATTTTTAAATGTAGTGTGTC
AGTGGTCAGAAACCGTGTGTTTGTAGCGGGTGTGAGTGGCAGGTGGCTCTGCTGACCTGGTGGCTGGTGTGTCGG

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FIGURE 4616B

GAGGATTTAACCTGTGTGAGGGATTGGCCTAGAAACAACCTGTTGAGATAGTCTTGCCCCATAACCTGTCTCACA
CCGTAGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGCTGGACA
TGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAGTGAGAGATGC
TGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTCACCGCCATGCAACTCCATGCCTATTTACTGGAAACCTGTTAT
GCCAAACAGTTGTACCAC TGCTAATAAATGACCAGTTTACCTG

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FIGURE 4617

GCCGTTTTCTTCTTGGTGTCCCGTCGCGGCTTGGGACCCGGCAAGATGGGCAAGAAGGGCAAGAAGGAGAAGAA
GGGCCGCGGCGGAGAGACGGCCGCCAAGATGGAGAAGAAGGTGTCTAAGCGCTCGCGGAAGGAGGAGGAAGAA
CCTGGAAGCGCTCATAGCCCATTTCCAGACACTCGATGCCAAGAGGACTCAGACTGTGGAACCTCCGTGCCCCC
ACCCTCACCAAGGTTAAATGCCTCCCTCTCGGTTTCCTGAGAAAGATGAGTTAATCCTTTTTGGAGGTGAATA
TTTCAACGGCCAAAAAACTTTTTGTATAACGAGCTCTATGTCTACAATACCAGAAAGGACACCTGGACCAAAGT
TGACATCCCCAGTCCACCTCCGAGGCGCTGTGCTCACCAGGCGGTGGTAGTGCTCAAGGTGGCGGACAGCTGTG
GGTCTTTGGAGGGGAGTTTGCTCTCCCAACGGAGAGCAGTTCTACCACTACAAGGATCTCTGGGTCTGCATTT
GGCCACCAAGACCTGGGAACAAGTCAAATCAACAGGCGGTCTTCGGGTGGGAGTGGACATCGGATGGTGGCCTG
GAAGAGACAATTGATCCTGTTGGTGGCTTCCATGAAAGTACACGGGATTACATCTACTACAACGACGTGTATGC
CTTTAATCTGGACACCTTCACATGGAGCAAGCTGTCCCCGTGAGGACGGGGCCACACCCAGATCAGGCTGCCA
GATGTCCGTCACTCCCCAGGGCGGCATCGTCTATGGGGGCTACTCGAAACAGAGAGTTAAGAAAGACGTGGA
CAAGGGCACACGGCACTCAGACATGTTCTGCTGAAGCCAGAGGACGGAAGAGAAGACAAGTGGGTTTGGACTCG
GATGAACCCCTTCGGGGGTCAAGCCCACCCACGGTCTGGCTTTTCCGTGGCCATGGCCCCGAATCACCAGACACT
GTTCTTCGGGGGTGTCTGTGACGAGGAAGAGGAGGAGAGCCTGTGGGCGAGTTCTTCAACGATCTGTACTTCTA
CGACGCCACCAGGAACCGTTGGTTTGAGGGACAGCTGAAGGGACCCAAGTCTGAAAAGAAGAAACGCAGGCGGGG
CAGAAAAGAGGAGCCCGAAGGTGGTAGCAGGCCGGCGTGTGGGGGAGCTGGCACCCAGGGGCCTGTGCAGCTGGT
CAAGGAGGTGGTGGCCGAGGATGGCACCCTGGTCACCATTAAGCAGGTGCTCACCAGCGCCAGGCTCGGCGGGGCA
GCCCCGGTCTGAGGACGAAGACAGCCTTGAGGAGGCCGGCAGCCCCGACCTGGGCCGTGTCCACGCTCCAACGC
CATGCTGGCTGTGAAGCATGGGGTGTCTACGTCTATGGGGGCATGTTTGAGGCCGGCGACCGCCAGGTCAACCT
CAGCGACCTGCACTGCCTGGACCTGCACAGGATGGAGGCGTGAAGGCCTTGGTGGAGATGGACCCAGAACTCA
GGAGTGGCTGGAGGAGACGGACTCGGAAGAGGACAGTGAGGAGGTTGAGGGCGCCGAGGGTGGGGTCGACGACGA
AGACAGCGGAGAGGAGAGCGGTGCGGAGGACTGAGAAGAGCCCTGCCAGGGGCGCCTGGCAAGTGCTGTGCCCA
CGTCCGCCCAGGACCCAGCCGTGTTGAGTGAAGCTCTTGGGGCCAGCGTGCGTCTGACGCACAGGAGAGAGCTG
AAGGTGGGTGGCCAGGCCAGGGTGTGAACCTTCTCCATGGTTAGTCTCTGACGCGGCACTGGGCCGGAAGTT
CAACTGAGTGCAGTGCAGGTGGATTCCCTCAGCAGCCTGTGTGTGTGTGAAATAAATTGGACTTGAAACAAGAA
AAAAAAAAAAAAA

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FIGURE 4618

MGKKGKKEKKGRGAEKTAAMEKKVSKRSRKEEEDLEALIAHFQTILDAKRTQTVELPCPPPSRLNASLSVHPEK
DELILFGGEYFNGQKTFLYNELYVYNTRKDTWTKVDIPSPPPRRCAHQAVVVPQGGGQLWVFGGEFASPNGEQFY
HYKDLWVLHLATKTWEQVKSTGGPSGRSGHRMVAWKRLILFGGFHESTRDYIYYNDVYAFNLDFTWSKLSPSG
TGPTPRSGCQMSVTPQGGIVVYGGYSKQRVKKDVKGTRHSDMFLLKPEDGREDKVVWTRMNPSGVKPTPRSGFS
VAMAPNHQTLFFGGVCDEEEESLSGEFFNDLYFYDATRNRWFEGQLKGPKEKKRRRGRKEEPEGGSRPACGG
AGTQGPVQLVKEVVAEDGTVVTIKQVLTAPGSAGQPRSEDEDSLEEAGSPAPGPCPRSNAMLAVKHGVLYVYGGM
FEAGDRQVTLSDLHCLDLHRMEAWKALVEMDPETQEWLEETDSEEDSEEVEGAEGGVDDSDSGEESGAED

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FIGURE 4619

GGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGGCGGGCGGGCCCTGGCCCCGGGATGGCTAT
GTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGGCGGACAGCGGCCTGGA
GGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGGCCCGTGGCCATCGGCAGCTGCGGCCACACGTT
CTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCATGCCCTTCGACCC
CAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTATCCTACAAAGCGCCCTGTGAGGGTGCAACAA
AAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTCTGCTCCTGCTGAAGGTCCAGGAGCAGATGGCCAACTGCCC
CAAGTTCTGTCGCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCGCCTGCCC
GTACTGTGGTGGCCGAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCGACCCCCAA
CCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCCAGCTACAAGAGCGCCAACCTTCCTGCAGCA
CCTGCTTACCGACACAAGTTCTCCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCCTTCAGGC
TGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAGGGAAGCGCAGCCACCCGCCTGCGTCTGGGGTCAGGGATGTCC
CCGCTCCTGTGTCGCACCTGGCACCTGCTCGGGAGTGCACCTACCGGACTGAGCTCACAGGAGGAGCCTGCACC
CGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAGCAGGGCC
GCCTGGTCCACCGCGTCTGCTGGGTCTTTCGGTGTCTTGGCCGAGCAGGCGGCCCTACTTGGGCAGGGCTGGAC
GCTGAGACCTGGAGCTGCCACCGTCTCTTCAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGACGCGCGAGT
CGCGGCTGCGCAGTCGAGCCCGGGAGGAACCCAGGCTGCTGCCCTGGCCAGCCCGACCTGCCCCGGCCCCACTT
CCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCCTGGCATCTTTTCTATATTATCCAGTGTGAT
AATCTTTTACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTACTAGGAAT
AATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGGATTGGG
GCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCTGCCCTG
GCCACCCACTGTGTGTCTGGGTCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAGCACCCC
AGCCACAGGCTGTGGCTGCTCCCAGCAGAGGCGGGGCCGAGAGAAGGGGCCCTCCTCCACCCAGAGTCTTGCC
TTGGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCACTGGTGGCAGAGCTT
GGGGGCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATTTCTTTTCTGTTCTTGGCATTAAATTAT
TGCTGTCTTTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGC

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FIGURE 4620

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLOPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 4621

CTCCGACGTCATCGGGGCGCGCCCTCGCGCTGTGCGCGCCACAGTCTGCGACGGGACCCGGCGTGCCCATGTGTG
AGGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCCGGCGCCGCGGCCAGGGACTGTTTCAAGG
CCTTCTACGTCCACAAGTTCAGAGCCATGCTGGGCAAGAACCGGCTCATCTTCCAGGCGAGAAGGTGCTCTTGG
CGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTTCTTGAGGGCCTGAGCCAAGATTCTGCCAAAA
GACTGCGCTTTGTGGCAGGAGTCATCTTTGTTGACGAGGGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAA
AGACCTTGGCCGAAGTGAAGCCCATTCTGCAAGCAACTGGGTTCCTATGGCATGTGGTGGCCTTAGAGGAGGTGT
TCAGCCTGCCACCGTCGGTGCTTTGGTGCTCTGCCAGGAGCTAGTGGGATCCGAGGGGGCCTACAAGGCGGCCG
TGGACAGCTTCTCCAGCAGCAGCATGTGCTGGGGGCCGGGGGTGGTCTGGCCGACTCAAGGGGAGGAACAGC
CACCCAGCCCCGCTGGACCCCAAGAACCTGGCAAGACCGCCTGCCCTGCCCAGACTGAGGCTCTTTCCCAAC
TGTTCTGCTCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACA
TGGCCCGAGCCACGGCTACTCCAAGGTCACTGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATGACCA
ACCTGGCGCTGGGTGAGGGGGCCTTCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGGGACGTGGTGG
TGGTGGCGCCCATGCGGGACCACACCCTGAAGGAGGTGCTTTCTACAACCGCCTGTTCTCTGTTCCTTCTGTCT
TCACACCAGCCGTCGACACCAAGGCCCTGAAAAGGCCAGCATCCACCGGCTGATGGAGGCCTTCATCCTCAGGC
TGCAGACCCAGTTCCCTTCACTGTGACACTGTGTACAGGACAAGTGAGAAGCTGGTGAAGGGCCCCGGGATG
GCCCTGCTGCTGGCGACTCCGGCCCCCGCTGCCTCCTCTGCATGTGTGCCCTGGACGTCGACGCCGCTGACAGTG
CCACGGCTTTTGGGGCTCAGACCTCCTCGCGTCTCTCCAGATGCAGTCACCCATCCCCCTGACTGAGACCCGGA
CACCCCGGGGGCCTGCTGTTCTCCAGGGGTGGGCTGGGCCAGCGCTGCGGCCAGGGGGCCTGTAGGAGGGAGG
ACCCCAAGCCTGCATTGAGGAGCAGCTGTGCTACAGCTGCCCGTGAACATGAAGGACTTGCCCTCACTGGACC
CCCTGCCGCCGTACATCCTGGCTGAGGCCCAGCTCCGCACACAGAGGGCCTGGGGCTTGACAGGAGATCCGGGACT
GTCTGATTGAGGACAGTGACGACGAGGCGGGCCAGAGCTGAGCGTGAGGACGTGCTTGCCGGGACAGCAGGCAGT
GGCCACCTGGTACACCACACTGGAGCCGGAAGGCAAGGACGGGGGACTGGCCTCTGATTGTCCATTGTATAAAT
AAAACATTTTAAAT

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FIGURE 4622

CGCGCACTCCGCCGCCATGGAGCAGCGCCGCGTCACCGACTTCTTCGCGCGCCGCCGCCCGGGCCCCCGCAT
CGCGGGCGCCCAAGCTGGCCTGCCGCACCCCCAGCCCCGCCAGGCCCGCACTCCGCGCCCCGGCCTCCGCTACCAG
TGGCAGCCGCAAGCGCGCCCGCCCGCCCGCCCGCCCGGACGCGACCAGGCCAGGACACCGGCCCGCAGGAGACT
GCGGCTGTGGGTGGACGAGGTTTCCAGCCCCAGTACCCCCGAGGCCCCAGACATCCCAGCCTGCCCTTCTCCGGG
CCAGAAGATAAAGAAATCCACCCGGCAGCAGGTCAGCCGCCCCACCTGACATCCGCGCAGGACCAGGACACCAT
CTCTGAGCTTGCGTCATGCCCTGCAACGGGCCCCGGGAGCTGGGGGCAAGAGTCCGGGCGCTGAAGGCCAGTGCCCA
GGATGCTGGGGAGTCTGCACCCCAGAGGCCGAGGGCCGCCCTGAGGAGCCATGTGGCGAGAAGGCGCCCGCTA
CCAGCGCTTCCATGCCCTGGCCAGCCCGGCCCTGCCGGGACTCGTGCTGCCCTACAAGTACCAGGTGCTGGCGGA
GATGTTCCGCAGCATGGACACCATCGTGGGCATGCTCCACAACCGCTCCGAGACGCCACCTTTGCCAAGGTCCA
GCGGGGCGTCCAGGACATGATGCGTAGGCGTTTTGAGGAGTGCAATGTTGGCCAGATCAAACCGTGTACCCGGC
CTCCTACCGCTTCCGCCAGGAGCGCAGTGTCCCCACCTTCAAGGATGGCACCAGGAGGTGAGATTACCAGCTCAC
CATCGAGCCACTGCTGGAGCAGGAGGCTGACGGAGCAGCCCCCAGCTCACGGCCTCGCGCCTCCTGCAGCGACG
GCAGATCTTCAGCCAGAAGCTGGTGGAGCATGTCAAGGAGCACCACAAGGCCTTCTGCGCCTCCTGAGCCCCGC
CATGGTGGTGCCGGAGGACCAGCTGACCCGCTGGCACC CGCTTCAACGTGGATGAAGTACCCGACATCGAGCC
GGCCGCGCTGCCCCAGCCACCCGCCACGGAGAAGCTCACCCTGCTCAGGAGGTGCTGGCCCCGGGCCGCAACCT
GATTTACCCAGGATGGAGAAGGCCTTGAGTCAATTGGCCCTGCGCTCTGCTGCGCCAGCAGCCCCGGGTCTCC
CAGGCCAGCACTGCCGGCTACCCACACAGCCACCCCGCCTGCAGCCTCTCCAGTGCTCTGAAGGGGTGTCCCA
GGATCTGCTGGAGCGGATCCGAGCCAAGGAGGCACAGAAGCAGCTGGCACAGATGACGCGGTGCCCGGAGCAGGA
GCAGCGGCTGCAGCGCTTAGAACGGCTGCCTGAGCTGGCCCGCTGCTGCGGAGCGTCTTGTGTCCGAACGCAA
GCCTGCGCTCAGCATGGAGGTGGCCTGTGCCAGGATGGTGGGCAGCTGTTGTAATCATGAGCCCTGGGGAAAT
GGAGAAGCACCTGCTGCTCCTCTCCGAGCTGCTGCCGACTGGCTCAGCCTCCACCGCATCCGCACCGACACCTA
CGTCAAGCTGGACAAGGCCGCGGACCTCGCCACATCACTGCACGCCTGGCCCACCAGACAGTGCTGAGGAGGG
GCTGTGAGCCTGGGGGCCACTGTGGACAGACGTGGGCTTCAAGAGCTCGCTGGCCTGGGCCACCAGCATTTTCT
TTTATGAACATGATACACTTTGGCCTTCTTTCCCCAGCGCCCTGAGGGCCAGAGGCAGATGTGGGCTGCAGGC
TGCACAGCCCGAGGGTCTCTGGCTGCGGGCGGTGGGCCCTTCATGGGGCTCACCTGGTGGATTACATTAAACC
GGTTTCTGTGGC

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FIGURE 4623

MFRSMDTIVGMLHNRSETPTFAKVQRGVQDMMRRRFEECNVGQIKTVYPASYRFRQERSVPTFKDGTTRRSYQLT
IEPLLEQEADGAAPQLTASRLLQRRQIFSQKLVEHVKEHHKAFSLSPAMVVPEDQLTRWHPRFNVDEVPDIEP
AALPQPPATEKLTTAQEVLARARNLISPRMEKALSQALRSAAPSSPGSPRPALPATPPATPPAASPSALKGVSQ
DLLERIRAKEAQKQLAQMTRCPEQEQLRQLRLERLPELARVLRVSVFVSEKPPALSMEVACARMVGSCCTIMSPGEM
EKHLLLLSELLPDWLSLHRIRTDITYVKLDKAADLAHITARLAHQTRAEEGL

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FIGURE 4624

AGCCCGGGGCAGCCAGCAGTACCGGGCCCTGACCGTGCCCGAGCTCAGCCAGCAGATGTTTCGATGCCAAGAACAT
GATGGCGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCG
TGGAGTGGATCCCCAACACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGCCTCAAGATGTCCTCCACCT
TCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCA
AGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACG
ACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGG
AGGAGTCGGAGGCCAGGGCCCCAAGTGAAGCTGCTCGCAGCTGGAGTGAGAGGCAGGTGGCGGCCGGGGCCGAA
GCCAGCAGTGTCTAAACCCCGGAGCCATCTTGCTGCCGACACCCTGCTTTCCCCTCGCCCTAGGGCTCCCTTGC
CGCCCTCCTGCAGTATTTATGGCC

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FIGURE 4625

MAVQGSQRRLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIIVDRYISIFYAL
RYHSIVTLPRARRAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVMAVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFLLHLLTLIVLCPEHPTCGCIFYKNFNFLALIICNAIIDPLIYAF
HSQELRRTLKEVLTCSQDRALVSWDVKSLGGSVCQELLPQQPQEKGLCDQKASSTALQRLLOKEFWEVISDEH
GIDPSGNYVGSDQLERISVYYNEASSHKYVPRAILVDLEPGTMDSVRSGAFGHLFRPDNFIQSGAGNNWAK
GHYTEGAELVDSVLDVVRKECENCDCLOGFQLTHSLGGGTGSGMGTLISKVREEYPDRIMNTFSVVPSPKVSdT
VVEPYNATLSIHQLVENTDETYCIDNEALYDLCFRTLKLATPTYGDLNHLVSATMSGVTTSRFPQQLNADLRKL
AVNMVFPFRLHFFMPGFAPLTARGSQQYRALTVPELTQQMFDAKNMMAACDPRHGRYLTVATVFRGRMSMKEVDE
QMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEEM
DEMEFTEAESNMNDLVSEYQQYQDATAEEEGEMYEDDEESEAQGPk

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FIGURE 4626

GGAGAGGGTGTGAGGGCAGATCTGGGGGTGCCCAGATGGAAGGAGGCAGGCATGGGGGACACCCAAGGCCCCCTG
GCAGCACCATGAACTAAGCAGGACACCTGGAGGGGAAGAACTGTGGGGACCTGGAGGCCTCCAACGACTCCTTCC
TGCTTCCTGGACAGGACTATGGCTGTGCAGGGATCCCAGAGAAGACTTCTGGGCTCCCTCAACTCCACCCCCACA
GCCATCCCCCAGCTGGGGCTGGCTGCCAACCAGACAGGAGCCCGGTGCCTGGAGGTGTCCATCTCTGACGGGCTC
TTCTCAGCCTGGGGCTGGTGAGCTTGGTGGAGAACGCGCTGGTGGTGGCCACCATCGCCAAGAACCAGAACCTG
CACTCACCCATGTACTGCTTCACTGTCTGCCTGGCCTTGTGCGACCTGCTGGTGAGCGGGAGCAACGTGCTGGAG
ACGGCCGTCATCCTCCTGCTGGAGGCCGGTGCCTGGTGGCCCCGGGCTGCGGTGCTGCAGCAGCTGGACAATGTC
ATTGACGTGAACCTGCAGCTCCATGCTGTCCAGCCTCTGCTTCTGGGCGCCATCGCCGTGGACCGCTACATC
TCCATCTTCTACGCACTGCGCTACCACAGCATCGTGACCCTGCCGCGGGCGCGGCAAGCCGTTGCGGCCATCTGG
GTGGCCAGTGTGCTCTTCAGCACGCTCTTCATCGCCTACTACGACCACGTGGCCGTCCTGCTGTGCCTCGTGGTC
TTCTTCCTGGCTATGCTGGTGCTCATGGCCGTGCTGTACGTCCACATGCTGGCCCCGGCCTGCCAGCACGCCAG
GGCATCGCCCCGGCTCCACAAGAGGCAGCGCCCGGTCCACCAGGGCTTTGGCCTTAAAGGCGCTGTACCCCTCACC
ATCCTGCTGGGCATTTTCTTCTCTGCTGGGGCCCCCTTCTTCTGCACTCTCACACTCATCGTCCTCTGCCCCGAG
CACCCACGTGCGGCTGCATCTTCAAGAACTTCAACCTCTTCTCGCCCTCATCATCTGCAATGCCATCATCGAC
CCCCCATCTACGCCTTCCACAGCCAGGAGCTCCGCAGGACGCTCAAGGAGGTGCTGACATGCTCCTGGTGAGCG
CGGTGCACGCGCTTAAAGTGTGCTGGGCAGAGGGAGGTGGTGATATTGTGTGGTCTGGTTCCGTGTGTACCCCTGG
GCAGTTCCTTACCTCCCTGGTCCCCGTTTGTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTGAAG

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FIGURE 4627

MAVQGSQRRLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDDLVS GSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIADVRYISIFYAL
RYHSIVTLPRARQAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLLIVLCPEHPTCGCIFKNFNLFALALIICNAIIDPLIYAF
HSQELRRTLKEVLTCW

5014/6881
FIGURE 4628

GCATAGGCTAGGTAGCGAGGCCGCGTGTGAATCGGCCGAGGCCGAGTTTCTGCGCTTCCTTCTCCCTCTCTCCAG
ACGTCGTGGTCGTTTCGGTCTCTATGTCGCGCCGGGCCCTCCGGAGGCTGAGGGGGGAACAGCGCGGCCAGGAGCCC
CTCGGGCCCGCGCCTTGCAATTCGATCTCCGTGATGACGATGACGCGGAAGAAGAAGGGCCCAAGCGGGAGCTT
GGTGTCCGGCGTCCCGGGGCGCAGGGAAGGAGGGCGTCCGAGTCAACAACCGCTTCGAGCTGATAAACATTGAC
GATCTTGAGGATGACCGTGTGGTGAACGGGGAGAGGTCTGGCTGTGCGCTCACAGACGCTGTGGCACCAGGGAAC
AAAGGAAGGGGTGACGCTGGAACACAGAGAGCAAGACGGATGGAGATGACACCGAGACAGTGCCTCAGAGCAG
TCTCATGCAAGTGGCAAACTCCGGAAGAAGAAAAAACAAGAAAAGCAGCACGGGAGAAGCATCG
GAAAACGGACTAGAAGATATCGATCGCATCCTAGAGAGGATTGAGGACAGCACTGGGTTGAACCGTCCCGGCCCA
GCTCCCTGAGCTCCAGGAAGCACGTTCTTACGTGGAGCACAGACACTTGAATCCAGACACAGAAGTGAAGG
TATTTTGGTGCCCGGCAATCCTGGGGGAGCAAAGGCCACGGCAGAGACAACGTGTGTACCCCAAGTGCACATGG
CTGACCACCCCTAAAGCACCTGGCCCCGTACAGCAAACAGGTCTGTCCATGCGGCTGTGGAATCAAAAAA
GGCCTCTCCTTCTTTGCGTTTGAGCACAGTGAGGAGTACCAGCAGGCTCAGCACAAGTTCTGGTGGCCGTGGAG
TCTATGGAGCCGAACAACATCGTGGTTCTGCTCCAGACGAGCCCTTACCAGTTGACTCACTCCTGCAGCTCAGC
GATGCTGCCGCTTTCAAGAGGATCAGGAGATGGCTCGAGACCTCGTAGAGAGAGCGCTGTACAGCATGGAATGT
GCGTTCCACCCCTGTTTCACTCTCACCAGTGGGGCCTGCCGGCTGGATTACCGCAGACCCGAGAACAGGAGCTTC
TACCTGGCCCTCTACAAGCAGATGAGCTTCTGGAGAAGCGAGGCTGCCCGCGCACGGCGCTGGAGTACTGCAAG
CTCATCCTGAGTCTCGAGCCGGATGAGGACCCCTCTGCATGCTGCTGCTCATCGACCACCTGGCCTTGCGGGCC
CGGAACACGAGTACCTGATCCGCCTCTTCCAGGAGTGGGAGGCTCATCGGAACCTGTCCAGCTCCCTAATTTT
GCCTTCTCTGTTCCACTGGCGTATTTCTGCTGAGCCAGCAGACAGACCTCCCTGAGTGTGAGCAGAGCTCTGCC
AGGCAGAAGGCCTCTCTCTGATACAGCAGGCGCTCACCATGTTCCCTGGAGTCTCTCTGCCCTGCTCGAGTCT
TGCAGTGTGCGGCCCGACGCCAGCGTTTCCAGTCACCGCTTCTTTGGACCCAATGCTGAAATAAGCCAGCCCCCT
GCCCTGAGCCAGCTGGTGAACCTGTACCTTGGGAGGTACACTTTCTCTGGAAGAGCCCGCCACCATGAGCTGG
CTGGAGGAGAACGTCCACGAGGTTCTGCAAGCAGTGGACGCCGGGGACCCAGCCGTGGAAGCCTGTGAGAACCGG
CGGAAGGTGCTCTACCAGCGTGACCCAGGAATATCCACCGCATGTGATCCTCTCTGAGATCAAGGAAGCCGTC
GCTGCCCTGCCCCCGGACGTGACCACGCAGTCTGTGATGGGGTTTGATCCTCTGCCTCCTTCGGACACAATCTAC
TCCTACGTCAGGCCAGAGAGGCTAAGTCCTATCAGCCATGGAACACCATTGCTCTCTTCTTCGGTCACTGTTG
CCAAACTATACCATGGAGGGGAGAGGCCCGAGGAAGGAGTGGCTGGGGGTCTGAACCGCAACCAGGGCCTGAAC
AGGCTGATGCTGGCTGTGCGCGACATGATGGCCAACCTCCACCTCAACGACCTGGAGGCGCCGCACGAGGACGAC
GCTGAGGGGGAGGGGGAGTGGGACTGAGCGTCCGAGAGGTGACCGAAAAGCCGTATGATGATGTTCCCGATTTT
TCTGTTGGTCGGAGTCGGCCAGTTGCCTGAAGTAGGGAAGCTGAGTGTGTCGCTCCCTGGTCCACTGTTTCTCCT
ATAAATGTAAATGGGTC

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FIGURE 4629

MSRRALRRLRGEQRGQEPLGPGALHFDLRDDDDAEEEGPKRELGVRRPGGAGKEGVRVNNRFELINIDDLDDPV
VNGERSGCALTDAPGNKGRGQGRGNTESKTDGDDTETVPSEQSHASGKLRKKKKKQKNKKSSTGEASENGLEDI
DRILERIEDSTGLNRPGPAPLSSRKHVLYVEHRLNPDTELKRYFGARAILGEQRPRQRQRVYPKCTWLTPKST
WPRYSKPGLSMRLLESKKGLSFFAFEHSEYQQAQHKFLVAVESMEPNIVVLLQTSFYHVDSSLQSDACRFQE
DQEMARDLVERALYSMECAFHPLFSLTSGACRLDYRRPENRSFYALYKQMSFLEKRGCPRTALEYCKLILSLEP
DEDPLCMLLLIDHLALRARNYEYLIRLFQEWEAHRNLSQLPNFAFSVPLAYFLLSQQTDLPCEQSSARQKASLL
IQQALTMFPGVLLPPLESCSVRPDASVSSHRRFFGPNAEISQPPALSQLVNLYLGRSHFLWKEPATMSWLEENVHE
VLQAVDAGDPAVEACENRRKVLYQRAPRNIHRHVILSEIKEAVAALPPDVTTQSVMGFDPLPPSDTIYSYVRPER
LSPISHGNTIALFFRSLLPNYTMGERPEEGVAGGLNRNQGLNRLMLAVRDMANFHLNDLEAPHEDDAEGEGEW
D

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FIGURE 4630

ATGGTGACGCACGCCGCTGGCGGAGGACCTTTTGTGAGGAGCAAAAGAAGGGATCCACCTATTTCAGTTCCAAAA
TCTAAGGAGAAGTTGATGGAGAAGCATTCCAGGAAGCCAGGCAGGCAGACAGGGAGTCGGAGAAGCCTGTGGAC
AGCCTCCACCCGGGGGCCGGGACAGCCAAGCACC CGCCGCGGAGCTTCGCTGGAAGAGAAACCTGATGTAAAG
CAAAAGTCCAGCAGGAAGAAAGTGGTCGTTCCACAGATCATCATCACGCGAGCGTCGAATGAGACGCTAGTCAGT
TGCAGTTCCAGCGGGAGTGACCAGCAGAGAACCATTTCGGGAGCCGAGGACTGGGGCCCTACCGGCGGCACAGG
AACCCACGTACAGCAGACGCTATAATTACATCTCAAAGAATATAACAAGCACCTTTGCATGGCACTCGCTACTC
CCTGCGATAGGCGTCTCGGGAACAGCCGCTCACCTGTGAGAAGCCGAGGCCCTTCTCCAGTGCTCTCGGGGA
GGTTGCACCAGGCCACCCACCTGTGAGAACTGCAGCCCCCTTCTCCAGTGCTTCGGGGAGGGTGCACCAG
GCCCCCCCCACCTTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTCTCAGGGAGGGTGCACCAGGCCCTGCCCCG
CCGTGAGAACTGCAGTCCCTTCTCCAGTGCTCTCGGGAGGGTGCACCAGGCCACCCACCTGTGAGAACC
TGCAGCCCCCTTCTCCAATGCTCTCGGGAGGGTACACCAGGGTGTCCCCACCTGTGAGAAGCCACCGCCCCCT
TCTCCAGTGCTCTCGGGAGGGTGCACCAGGGTGTCCCCACGCTGTAAGAAGCCGCGCCCCCTTCTCCAGTGCT
CTCCAGCCCCCCCCACCTGTGAGAAGCCATGGCCCCCTTCTCCAGTGCTTTTGGGGAGGGTGCACCAGGGCCACC
CCACCTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTTTTCGGGGAGGGTACACCAGGCCGCCCCACCTGTGA
GAAGCCGTGGCCCCCTTCTCCCGTCTCTCAGGGAGGGTGCACCAGGCCCTGCCCCGCTTGAGAACTGCAGCC
CCCTTCTCCAGTGCTCTGGGGAGGGTGCACCAGGCCCTGCCACCTGTGAGAACTGCACCCCTTCTCCAGTG
CTCTCGGGAGGGTGCACCAGGCCGCCCCACCTGTGAGAAGCCGAGCCCGTTCTCCATTGCCATTTGGTCTT
GCCTTCCCAGAGCTGCTAGCAGCTCGGTTCGAGGCAAGAGTGACTGGCTCAGAGAGCGAGCTTTGTGGTATTGAT
AAATGAATAAATTAGTATGTTTCATGTTGGAAGTGGCTGGCTCTGCAGAGTGATGGACAGCAGGTGGCATCTTACA
TTGTGATTTGTGGTGCACAGTTAAACACTTCCCTTCGTTTCAGAAGGAGACAATGTGAATACTTGGAATTATA
GTGAATAAGATGCCTCCCAACTTGAGGAAAAGGTCAGATTCTAAGAGCTAAACGTTAAGATGTAATGTTCCAGA
ACAAAGAGGCCCAGAGTCACTGAACGGGGCCCCAGGGCTCCTAGCTTGAGTGTAATCTGAGTCAGCTTATGAAAA
GGCCCCAAAGAAGAAAGTGAATGTGTGCTGGGCACATGGGACAGCCATGGCACTGAGACTTTGGAAGTGGCCTT
GCCAGCGCTGTCTGTCTTTCTGGCCACAGATGAGGGCTCCTGATTGTGGAAGGCCACGGAAGGGACCTGAACA
CGATGGCACGAGACAAGTTATCTCTGTGACTGCTCCTCTCCAGCAACCTCAGCTCAGGCTAGACTTTCCCCCT
GTGTTGAGAATGCCCTGCCCTGTGTGGAAGCCTGATGCATTTAGTGACAGTGTTAGCTTTGTTAGTTTCTAGT
CTGGCCAGCAGGCTTCCATGTGATCTGCCATTGGCTTGCTTCAGTGCCAGTGAGCCAGGGGTGTCCACCAGA
GTCTTGACACAGACTTCTGAGGTGGCAGCGGGAGGGAGCCTGCTCCCTGCCACACAGTACAATTTCTAATCCA
TACAGGCCTATGTAGTATATACACATACGCAGAGCCTTAGGAATTGTGAAAGGCCAATCAAAACTTGGGGCCC
TAATTTCACTCTGCC

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FIGURE 4631

MVTHAAGARTFCEEQKKGSTYSVPKSKEKLMKHSQEARQADRESEKPVDSLHPGAGTAKHPPPAASLEEKPDVK
QKSSRKKVVVPQIIITRASNETLVSCSSSGSDQORTIREPEDWGPYRRHRNPSTADAYNSHLKE

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FIGURE 4632

AGCGACTCACAAAAGGTCCTCGCGCCAGCGGCGTGCGTACCATGGCGACCGCGCGCCGCGCAGCCGCGCCCCGC
CCCTCTGGCGGGACCGGCCACCATCCTCTCGCGAGAGCATCCCGTGCGACCGGAAGTGGGGCGGCGACCCCGGAA
GTCCCCGCCGGGTGCAGCTTGGTCGGTTTCGATCGCCGCCGGGACCTGACACCGCCCGGAGTTGGCGTCCCTTCTC
CCTCTCCGAGTGCTGCTCCTGTCAATTGTGGCCATGGACGTTACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAG
GCGGAGAAGGACTCCAAGGCGGAGCAGGCCAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGT
GTGTATGCCGAGAACGCCATCCGCAAGAAGAACGAAGGTGTGAACTGGCTTCGGATGGCGTCCCGCTAGACGCA
GTGGCCTCCAAGGTGCAGACAGCTGTGACTATGAAGGGGTGACCAAGAATATGGCCAGGTGACCAAAGCCCTG
GACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTTCGAGCAGCAGGTGCAGAAC
CTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCGCGCAGGAGCAGGTG
GACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTGGACCAGCTCAGCCAGCTGCCCGAGGGC
GCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTACGGAGGTTGGCCGCTTGAGGAAC
TAGCCGTGCCCCGCCGGTGTGCACCGCCTCTGCCCCGTGATGTGCTGGAAGGCTCCTGTCTCTCCCCACCGCGT
CTTGCCTTTGTGCTGACCCCGCGGGGTGCGGCCGCGCAGCCACTCTGCGTCTCTACCTGCCAGGCTGCGTGGC
CTTAGGGTTGTTCTGTTCTTTTAGGTTGGGCGGTGGGTCTGTGTCCTGGTGTGAGTTTCTGCAAATTTCTGGG
GGTGATTTCTGTGACTCTGGGCCCACAGCGGGGAGGCCAAGAGGGGCCCTGTGGACTTTCACCCAGCACTGTGGG
GGCCTTCAGACTCTGGGCGAGCAGACATGTGCTTCCCATCAGCCAGAGGGGGTCAGGGCTGCCCTGTTGCCAAA
CAACTCCCTGAGGCCTCTCCGCACCACCTCAGCGGGCAGGAGGTCCCACCATGTGGACAGACATAGCCCAAGGAG
GCACCACAGGTCTATGTGTGCTGGGGGATGTGAGGTGCCACCCAACGCTGTCTGGTGGTATTTACAATGACATC
CTCCTCCTCCATCACTCCAGGGGTGGTGTCTCGGCCGCCCTACCAGCTGGCTGAGCCCCCTGGCCTCCTGCGCT
CCCTCACTTCCCTCAGTTCCCAAAGCTGCCAGTCCATGGGGACAGAACCCTCACTCAGATCCACATTCAAGTGT
GCCCACCCTGCAGTCTTCATCCTCACTCAGCTGCTGCCTCTGGAGGTGCCCTTGGCCACATGTGCTGTGCTGTTT
GTCTCCTCGACAGGGAGCCTGTCCACCAGCAGGCTGCGGTCCCAGCGGGTGCCTCTGCAGCTCCTCCCTTGGGC
AGCCTGGTTCTCCCGAGGACCTTTCTTGGGGCCCTGCTTCATGACGATGCTGCCTGTGTACCCCTCTACCATC
TGTAACAACCTGGGTGCCTTCCCCGACCACACCCCAATGCCTTCCCAGCTTGGAAGCCAAGGCAGCTGATGAAGG
GAGCTCAGGAGAGCCGTCTTCAGCTGGGCTGGGGTTGGGGCTGCTGTGAGGAAAACCTGCCATTGTGGCCCTGGA
GAGTCACCAGCAGCTCTTGGGAAGGACTTGCTGGGAGGCTGAGAGAGGCTTTGGGCACAGCCTGCTGTCTTTTCC
ATTCCTAAAGTTTACTTCATTGTCTTGAGGCTTCCAGGTTTGTGTTTTGTTTGGCCAAAGTAGAAAAGGCAGG
TGGTGGGCGGCTGGCAGGGAGTGCGGGTCCCCGCCCTCTTCAGTCCTGCCCTCCCCTCCTCAGTCCTGCCACC
CCGTGCAGCCCATGCTGAGGCTGCAGTGGTGTGCTGGGTGTTACGTGCAGGAACGTGGAGACCCTGACGTGGGCT
CACTGCGTTTGGTTTTCTTTTCAAGCTTGGGAGCCCCCAGGGAGGGGCTAGTGTGGTAGGTCTTAGACGTGGA
TCCCTCCAGCCTCCCCAAAATCAACCCTGGTGTGAGAGAACGTCCTTCTGTCCATCGTGGGTAAACAGCCTTGGG
GAGGGTGCAGAGCTCTGCAGAGCCATGGGCCAGGTGGGGCTGCCTCAGTCCTGTCCCCTTGGGCACTGAGGAGAG
GGGCCATTACCTTTCTCCTAGAATGCTGTTGTAATAAACAATGGATCCCTGG

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FIGURE 4633

CTTTCCGCTCGGCTGTTTTCTGCGCAGGAGCCGCGAGGGCCGTAGGCAGCCATGGCGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCGTAAGATC
CGCAGACGTAAGGCCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTGGGTCCCATCCGGCCCATC
GTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTG
GCCGGCATTCACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGCTCCAACTCATCCTCTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAAGTGAAGTGGCCACCCAGCTGACCGGACCGGTTCATGCCCGTCCGG
AACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCCGTGCCAACGCCCGGCTCTTCGGCATACGGGCAAAAAGAGCCAAGGAAGCCGAGAACAGGATGTTGAA
AAGAAAAAATAAAGCCCTCCTGGGGACTTGGAATCAGTCGGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGT
GGGAACAACCTGGGCCTGGGATGGGGCTTCACTGCTGTGACTTCTCTCTGCCAGGGGATTGGGGCTTCTTGAAA
GACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTTGAAGCACTGTTGGTTGTTGGTTAGTACTGATGTA
AAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTCAGAGTGGACTTGTGTTTTTTCTTTTTAAAGAGGCAA
GGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTGAGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACA
TGTCAGAACTACTAAAAATAAAGAAATCAGCCATGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4634

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGP IRPIVRCPTVRYHTKVRAGRG
FSLEELRVAGIHKKVARTIGISVDP RRRNKSTESLQANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELKLATQL
TGPVMPVRNVYKKEKARVITEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

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FIGURE 4635

CTGGGTCCTGGCCTTTGGGCATCATCCAGCGCCATCGGCCTGGCGCTTCAGCCAACGCGGGAGTGGATGGGCCCC
TTCTTCTTCGCAGACAGCGTTCGGCCGCTGCCCGGGCTCTAGGCGCGGCCGACGGCCAGTCTGGAGGGTTCGG
GGCGGAGGCCCGGGGGGTGCGCGCGCCCGGGGTCCGGCCTCTCACTCGCTCCCTCTCGTCCGCAGCCGCAGGG
CCGTAGGCAGCCATGGCGCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGC
GTGGCCACGTGGTTCAACCAGCCGGCCGTAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATC
GCCCCGCGCCCCGCGTCGGGTCCCATCCGGCCCATCGTGCCTGCCCCACGGTTCGGTACCACACGAAGGTGCGC
GCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTGGCCGGCATTACAAGAAGGTGGCCCGGACCATCGGCATT
TCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGC
TCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAAGTGAAGT
GCCACCCAGCTGACCGGACCGGTCTATGCCCGTCCGGAACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAG
GAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATAACGGGCA
AAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAAAAGAAAAATAAAGCCCTCCTGGGGACTTGGAATCAGTC
GGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGTGGGAACAACGGGCTGGGATGGGGCTTCACTGCTGTGA
CTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAGACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTT
GAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTAAAACGGTTTCTTGTGGGGAGGTTACAGAGGCTGACTTC
AGAGTGGACTTGTGTTTTTCTTTTTTAAAGAGGCAAGGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTG
AGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACATGTCAGAACTACTAAAAATAAGAAATCAGCCATGAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 4636

MAPSRNGMVLKPHFKDWQRRVATWFNQ PARKIRRRKARQAKARRIAPRPASGPIRPIVRCPTVRYHTKV RAGRG
FSLEELRVAGIHKKVARTIGISVDP RRRNKSTESLQANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELK LATQL
TGPVMPVRNVYKKEKARVITEEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

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FIGURE 4637

TAGTTTTATCTCTATACCCAAAATGGAGGTTAAAAGTTACACTAAAAATAACACGATTGCACCAAAGAAAGCGTC
CCATCGTATCCTGTCTAGACACGTCGGACGAGGAGGACGCGAGTGTACCGTGGGGACAGGAGAGAAGCTGAGACT
CTCGGCACATACGATATTGCTGCTAGTAAGACACGAGAGCCTTCTAATGCCAAGCAGCAGAAGGAAAAAATAA
AGTGAAAAAGAAGCGAAAGAAAGAAACAAAAGGCAGAGAGGTTTCGCTTCGGAAAGCGGAGCGACAAGTTCTGCTC
CTCGGAGTCGGAGAGCGAGTCCTCAGAGAGTGGGGAGGATGACAGGGACTCTCTGGGGAGCTCTGGCTGCCTCAA
GGGGTCCCGCTGGTGCTGAAGGACCCCTCCCTGTTTCAGCTCCCTCTCTGCCTCTCCACCTCGTCTCACGGGAG
CTCTGCCGCCCAGAAGCAGAACCCACAGCCACACAGACCAGCACACCAAGCACTGGCGGACAGACAATTGGAAGAAC
CATTTCCTCCCGGCTTGGTCAGAGGTCAGTTCTTTATCAGACTCCACAAGGACGAGACTGACAAGCGAGTCTGA
CTACTCCTCTGAGGGCTCCAGTGTGGAATCGTGAAGCCAGTGAGGAAGAGGCAGGAGCACAGGAAGCGAGCCTC
CCTGTCTGGAGAAGAAGAGCCCTTCTGTCCAGCGCGGAGGGCGCTGTCCCCAACTGGACAAGGAGGGGAAAGT
TGTCAAAAACATAAAACAAAACACAAACACAAAAACAAGGAGAAGGGACAGTGTCCATCAGCCAAGAGCTGAA
GTTGAAAAGTTTTACTTACGAATATGAGGACTCCAAGCAGAAGTCAGATAAGGCTATACTGTTAGAGAATGATCT
TTCCACTGAAAACAAGCTAAAAGTGTTAAAGCAGCATCGCGACCCTTTAAAAAGAAGAGAACTTAGCAAAAT
GAAATTAGAAGAAAAAGATGGCTCTTTAAAGATGAAAAATCACTGAAGAGAATCAAAGACACAAACAAAGACAT
CAGCAGGTCTTTCCGAGAAGAGAAAGACCGTTTGAATAAAGCAGAAAAGGAGAGATCGCTGAAGGAAAAGTCTCC
GAAAGAAGAAAACTGAGACTGTACAAAGAGGAGAGAAAGAAGAAATCAAAGACCGGCCCTCAAATTAGAGAA
GAAGAATGATTTAAAGAGGACAAAATTTCAAAGAGAAGGAGAAGATTTTTAAAGAAGATAAAGAAAAACTCAA
AAAAGAAAAGGTTTTATAGGGAAGATTCTGCTTTTGACGAATATGTAACAAAAATCAGTTTCTGGAGAATGAAGA
CACCAAATTTAGCCTTTCTGACGATCAGCGAGATCGGTGGTTTTCTGACTTGTCCGATTTCCTTTGATTTCAA
AGGGGAGGACAGCTGGGACTCGCCAGTGACAGACTACAGGGACATGAAGAGCGACTCTGTGGCCAAGCTCATCTT
GGAGACGCTGAAGGAGGACAGCAAGGAGAGGAGGCGGGACAGCCGGGCCCGGGAAGCGAGACTACAGAGAGCC
CTTCTTCCGAAAGAAGGACAGGGACTATTGGATAAAAACTCTGAGAAGAGGAAAGAGCAGACTGAAAAGCATAA
AAGTGTCCCTGGCTACCTTTTCGAAAAGGACAAGAAGAGGAGAGAGTCCGCAGAGGCCGGGCGGACAGAAAGGA
CGCCCTGGAGAGCTGCAAGGAGCGCAGGGACGGCAGGGCCAAGCCCGAGGAGCGCACCGGGAGGAGCTGAAGGA
GTGTGGCTGCGAGAGTGGCTTCAAGGACAAGTCCGACGGCGACTTTGGGAAGGGCTTGGAGCCGTGGGAACGGCA
CCACCCAGCAGAGAGAAGGAGAAGAAGGATGGCCCCGATAAGGAAAGGAAGGAGAAGACAAAACCAGAAAGATA
CAAAGAGAAATCCAGTGACAAGGACAAAAGTGAGAAATCAATCCTGGAAAAATGTCAGAAGGACAAAAGATTGTA
TAAATGTTTTAAAGAGAAAAAAGATACCAAGGAAAAACATAAAGACACACATGGCAAAGACAAAGAAAGGAAAGC
GTCTCTCGACCAAGGGAAGAGAGAAGGAGAAGGCTTTCCCTGGGATCATCTCAGAAGACTTCTCTGAAAAAAA
AGATGACAAGAAAGGCAAGAGAAAAGCTGGTACATCGCAGACATCTTCACAGATGAGAGTGAGGACGACAGAGA
CAGCTGCATGGGGAGCGGGTTCAAGATGGGAGAGGCCAGCGACTTGCCGAGGACGGACGGCCTCCAGGAGAAGGA
GGAAGGACGGGAGGCCATGCCTCCGACAGACACAGGAAGTCTTCTGACAAGCAGCACCTTGAGAGGCAGAAGGA
CAAGGAGCCCAGAGACAGGAGAAAGGACCGAGGGGCTGCCGACGCGGGGAGAGACAAAAAAGAGAAAGTCTTTGA
AAAGCACAAGGAGAAGAAGGATAAAGAGTCCACAGAAAAGTACAAGGACAGGAAGGACAGAGCCTCAGTGGACTC
CACGCAAGATAAGAAAAATAAACAGAAGCTCCCCGAGAAGGCTGAAAAGAAGCACGCTGCCGAAGACAAGGCTAA
AAGCAAAACACAAAGAGAAGTCGGACAAAGAACATTCCAAGGAGAGGAAGTCTCGAGAAGTGCCGACGCGGAAA
AAGCCTGCTTGAAAAGTTGGAAGAAGAGGCTCTCCATGAGTACAGAGAAGACTCCAACGATAAAATCAGCGAGGT
CTCCTCTGACAGCTTCACGGACCGAGGGCAGGAGCCGGGGCTGACTGCCTTCCTGGAGGTCTCTTTCACGGAGCC
ACCTGGAGACGACAAGCCGAGGGAGAGCGCCTGCCTCCCTGAGAAGCTGAAAGAGAAGGAGAGGCACAGACTC
CTCATCTTCATCCAAGAAGAGCCACGACCGAGAGCGAGCCAAGAAAGAGAAGGCCGAGAAGAAAGAGAAGGGCGA
AGATTACAAGGAGGGCGGTAGCAGGAAGGACTCCGGCCAGTACGAAAAGGACTTCTGGAGGCGGATGCTTACGG
AGTTTCTTACAACATGAAAGCTGACATAGAAGATGAGCTAGATAAAACCATTGAATTGTTTTCTACCGAAAAGAA
AGATAAAAATGATTCGAGAGAGAACCTTCCAAG

5024/6881
FIGURE 4638

ACTTGGCTGTCACTCAGCCTGGACGCGCTTCTTCGGGTTCGCGGGTGCACTCCGGCCCCGGCTCCCGCCTCGGCCC
CGATGGACGCCCGGTTCCCTCCTCGTCTCGGGCTGTTGGCCCAGAGCCTCTGCCTGTCTTTGGGGGTTCTTGGAT
GGAGGAGGCCACCACCCTGTACCCCTGGCGCCGGCGCCTGCCCTGAGCCGCGTGCGGAGGGCCTGGGTATCC
CCCCGATCAGCGTATCCGAGAACCACAAGCGTCTCCCTACCCCTGGTTTCAATCAAGTCGGACAAGCAGCAGC
TGGGCAGCGTCATCTACAGCATCCAGGGACCCGGCGTGATGAGGAGCCCCGGGGCGTCTTCTCTATCGACAAGT
TCACAGGGAAGGTCTTCTCAATGCCATGCTGGACCGCGAGAAGACTGATCGCTTCAGGCTAAGAGCGTTTGCCC
TGGACCTGGGAGGATCCACCCTGGAGGACCCACGGACCTGGAGATTGTAGTTGTGGATCAGAATGACAACCGGC
CAGCCTTCTGTCAGGAGGCGTTCACTGGCCGCGTCTGGAGGGTGCACTCCAGGCACCTATGTGACCAGGGCAG
AGGCCACAGATGCCGACGACCCCGAGACGGACAACGCAGCGCTGCGGTTCTCCATCTGTCAGCAGGGCAGCCCCG
AGCTCTTCAGCATCGACGAGCTCACAGGAGAGATCCGCACAGTGAAGTGGGGCTGGACCGCGAGGTGGTTCGCGG
TGTACAATCTGACCCTGCAGGTGGCGGACATGCTGGAGACGGCTCACAGCCACTGCCTCAGCCATCATCACC
TTGATGACATCAATGACAATGCCCCGAGTTTACCAGGGATGAGTTCTTTCATGGAGGCCATAGAGGCCGTGTCAGC
GAGTGGATGTGGGACGCTTGAAGTGGAGGACAGGGACCTGCCAGGCTCCCCAACTGGGTGGCCAGGTTTACCA
TCCTGGAAGGCGACCCCGATGGGCAGTTTACCATCCGCACGGACCCCAAGACCAACGAGGGGTGTTCTGTCCATTG
TGAAGGCCCTGGACTATGAGAGCTGTGAACACTACGAACCTCAAAGTGTGCGGTGCAGAATGAGGCCCGCTGCAGG
CGGCTGCCCTTAGGGCTGAGCGGGGCCAGGCCAAGGTCCGCGTGTCATGTGTCAGGACCAACGAGCCCCCGTGT
TCCAGGAGAACCCTTCCGACAGCCTAGCAGAGGGGGCACCCCGAGCCTCTGGTGGCCACCTTCTCTGCCC
GGGACCTTGACACAGAGCAGCTGCAGAGGCTCAGCTACTCCAAGGACTACGACCCGGAAGACTGGCTGCAAGTGG
ACGCAGCCACTGGCCGGATCCAGACCCAGCACGTGCTCAGCCCGGCGTCCCCCTTCTCAAGGGCGGCTGGTACA
GAGCCATCGTCTGGCCCAGGATGACGCTTCCAGCCCCGACCGCCACCGGCACCTGTCCATCGAGATCCTGG
AGGTGAACGACCATGCACCTGTGCTGGCCCCGCGCGCGGGGAGCCTGTGTCAGCGAGCCACACCAAGGCCAG
GCCTCCTCCTGGGCGCCACGGATGAGGACCTGCCCCCCCACGGGGCCCCCTTCCACTTCCAGCTGAGCCCCAGGC
TCCCAGAGCTCGGCCGGAAGTGGAGCCTCAGCCAGGTCAACGTGAGCCACGCGCGCTGCGGCCGCGACACCAGG
TCCCCGAAGGCTGCACCGCTCAGCCTGTGCTCCGGGACTCGGGGCGAGCCGCCCCAGCAGCGCGAGCAGCCTC
TGAACGTGACCGTGTGCCGCTGCGGCAAGGACGGCGTCTGCTGCGGGGGCGCGAGCGCTGCTGGCGGGGGGCA
CAGGCCCTCAGCCTGGGCGCACTGGTCTATCGTGTGCTGGCCAGCGCCCTCCTGCTGCTGGTGTGCTGCTGCTGG
CACTCCGGGCGCGGTTCTGGAAGCAGTCTCGGGGCAAGGGGCTGCTGCACGGCCCCAGGACGACCTTTCAGACA
ATGTCTCAACTACGATGAGCAAGGAGGCGGGGAGGAGGACCAGGACGCTACGACATCAGCCAGCTGCGTACC
CGACAGCGCTGAGCTGCCTCTGGGACCGCGCCACTTCGAGAGATGCCCCGAGGGCCGCTGCACCCCCAGC
CACCCGAGTGTGCCCACAGCCCCCTGGACATCGCGACTTCATCAATGATGGCTTGGAGGCTGCAGATAGTG
ACCCAGTGTGCCGCTTACGACACAGCCCTCATCTATGACTACGAGGGTGACGGCTCGGTGGCGGGGACGCTGA
GCTCCATCCTGTCCAGCCAGGGCGATGAGGACCAGGACTACGACTACCTCAGAGACTGGGGGCCCCGCTTCCGCC
GGCTGGCAGACATGTATGGGCACCCGTGCGGGTTGGAGTACGGGGCCAGATGGGACCACAGGCCAGGGAGGGTC
TTTCTCCTGGGGCACTGCTACCCAGACACAGAGGCCGGACAGCCTGACCCCTGGGGCGCAACTGGACATGCCACTC
CCGGCCTCGTGGCAGTGATGGCCCCTGAGAGGCAGCCTGAGGTACCGGGCCGACCCCTGGGGCTGGGGC
AGCCTCCTTCTGTAGGCGAGGGCCCAAGTCTGGGGGAGAACCTGAGTGTGGATGGGGCGGCCAGGAAGAGGCC
CCTTCTGCGGGGTGGGAAGAGTTTCTCTCCATCGGCCCATGCGGGTCACCTCCCTAGTCCCACCTTTGCCTC
CTACCAGTGAACCTCATCTTTGTATGAAAGACAGCAACCTCCTGGGTAATCTGAATGAAAAACGTGCTAGTCTC
TTTCATGCAAAAAAAAAAAAAAAAAA

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FIGURE 4639

MDAAFLVLGLLAQSLCLSLGVPGWRRPTTLYPWRRAPALSRVRRRAWVIPPISVSENHKRLPYPLVQIKSDKQQL
GSVIYSIQGPVDEEPRGVFSIDKFTGKVFLNAMLDREKTDRLRAFALDLGGSTLEDPTDLEIVVVDQNDNRP
AFLQEAFTGRVLEGAVPGTYVTRAEDDADDPETDNAALRFSILQQGSPELFSIDELTGEIRTVQVGLDREVVAV
YNLTLQVADMSGDGLTATASAIITLDDINDNAPEFTRDEFFMEAIEAVSGVDVGRLEVEDRDLPGSPNWVARFTI
LEGDPDGQFTIRTDPKTNEGVLISIVKALDYESCEHYELKVSQNEAPLQAAALRAERGQAKVRVHVQDTNEPPVF
QENPLRTSLAEGAPPGTLVATFSARDPDTEQLQRLSYSKDYDPEDWLQVDAATGRIQTQHVLSASPFLKGGWYR
AIVLAQDDASQPRTATGTLSEIILEVNDHAPVLAPPPGSLCSEPHQGPGLLLGATDEDLPPHGAPFHFQLSPRL
PELGRNWSLSQVNVSHARLRPRHQVPEGLHRLSLLLRDSGQPPQREQLNVTVCRCGKDGVCCLPGAAALLAGGT
GLSLGALVIVLASALLLVLLVLLVALRARFWKQSRGKGLLHGPQDDLQDNVNLNYDEQGGGEEDQDAYDISQLRHP
TALSLPLGPPPLRRDAPQGRLHPQPPRVLPTSPLDIADFINDGLEAADSDPSVPPYDTALIYDYEGDGSVAGTSL
SILSSQGDEDQDYDYLQDWRGPRFARLADMYGHPGLEYGARWDHQAREGLSPGALLPRHRGRTA

5026/6881
FIGURE 4640

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGA
GAGACCAGGAGTTTACAAAAACATCTCCCAACTTCATGGTGTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCAGGAAGCCATCTTT
GACACCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCTGTCTCAGAGAGCAGTGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCCGTCA
CGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATACCCCCGTACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATACCCCCGTATGGTCCCCGGGATCTGATGTCACTCTCTCTCGTGAA
GCCCTGGTGA CTGTACAAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACA ACTTCCAGCATC
CCTGGGGCTCAGACATAGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTG
CCTGACTCCACTGAAGCAAACACACATCACTGAGGTCACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCT
GTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTCAGCAGTGGGCAA
ACAAC TTCTTTGCTGGGAGCTCTGCTTCTCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTCAACCCCTTCA
GAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTCCCCACCAGCAGGGACCCTCTTCTTCTGTCCCTCCG
ACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAG
CCCCAACAGCCACGCCACGACTGCCCGGATCGAGGCCGACCACAGACGTGAGTGCAGGTGAAATGGAGGTTT
CCTCCTCTGCGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCCAGAGTGGCAGAAAGGCTGATGCAGCA
GCTCCACCGGGA ACTCCACGCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGAC
ATCAGCTGCAGCCAGGCATGTCCCGTATGCCAAAAGAGGGTGTGCCCCCTAGCCTGGGCCCCCACCAGCAGACTG
CAGCTGCGTTACTGTGCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGA
TGTGGCAACAGGACCCTCGCTCACATCCACGGAGTGTATGTATGGGGAGGGGCTTACCTGTTCACAGAGGTGT
CCTTGGACTCACCTTGGCACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCC
TGCA TTAATAATTCACTCAGTGTGGCCAG

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FIGURE 4641

CAGAGGCTGGGAGGCGGCAGAATGCAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAG
CTGCAACAGTACTTCCTGCGGCTCCGAGATGACCTCAACGTACCCGCTGTCCCACITTGAGTACGTCAAGAAT
GAGGACCTGGAGAAGATCGGCATGGGTGCGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCC
TTGTGCAAACGCAAGTCGTGGATGAGTAAGXXX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGTGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCCTGAGCCAGCCA
GAAGCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTAC
GGGTGGTGTCTACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGT
AAGCACCAGGGCCACTTCCTCCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTG
GAGTCCAAGCGCTTTATTCACCGTGACCTGGCTGCCCGCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATC
GGGGACTTTGGGCTGATGCGAGCACTACCTCAGAATGACGACCATTACGTATGCAGGAACATCGCAAGGTGCC
TTCGCTGGTGTGCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTCCGGGGTG
ACACTGTGGGAAATGTTACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGATCCTGCATAAGATC
GACAAGGAGGGGGAGCGGCTGCCCGGGCCGAGGACTGTCCCCAGGACATCTACAACGTATGGTCCAGTGCTGG
GCTCACAAGCCAGAGGACAGACCCACGTTGTGGCCCTGCGGGACTTCCTGCTGGAGGGCCAGCCACAGACATG
CGGGCCCTTCAGGACTTTGAGGAACCGACAAGCTGCACATCCAGATGAATGATGTCATACCGTCATCGAGGGA
AGGGCCGAGAATACTGTTGGCTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCCTCGCAACGTGGTG
ACCTCCGTGGCCGGCCTGTGGCCCGAGGACATCAGCCAGCCCTGCAGAACAGCTTCATCCACACAGGGCATGGC
GACAGTGACCCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACGTATCTGGGAAACCCCATGGACCCC
CCCGACCTCCTGAGCGTGGAAGTGAACCTCCCGGCCCCCCCCAGCATCTAGGAGGGGTGAAAAACCAACCTAT
GACCCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCC
CGAGGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGCTGAGGTC
ACGCTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCGCGCCCTCCCTGGCGCAGCTGGCC
ATGGACGCTGTCTCCCTGCTGGACGAGACCCGCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCTGCACCCC
ACGCTGTGGTGGACTGGGACGACGCCCCGTGCCCCCCCCCGCCGCTATGACGACGTGGCCAGGATGAGGAT
GACTTTGAGATCTGCTCCATCAACAGCACCCCTCGTGGGCGCGGGGTCCCTGCCGGGCCAGCCAGGGCCAGACC
AACTACGCTTTGTGCCTGAGCAGGCGCGGCCGCCCTCCCTGGAGGACAACCTGTTCTCCCGCCCCAGGGT
GGGGGCAAGCCGCCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGCATGAGGCAACTG
CAGGCTCCGCGCGGCTCCCCGGCCCCCTCTCCAGCCCGGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTA
CCCATCCCCCTCGGCCACGCGCCACACGTCCAGCTGTCTCCAGCCCCCGGGCGAGGAGGAGACCAGCCAG
TGGCCTGGACCTGCTTCCCTCCCCGGGTGCCTCCGCGGGAGCCCTGTCCCTCAAGGCTCGAGGACACCCAGC
CCCCTGGTACCACCTGGCAGCTCCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCACACC
CAGAGCTTTGCCCTCAGACCCCAAGTACGCCACCCCCAGGTGATCCAGGCCCTGGCCCGGGCTGGTCCCTGC
ATCCTTGCCCATCTGTCTGGGATTGTGCAAGAAGGTACGAGCACCCACTATTACTTGCTTGCCCGAGCGACCA
TCCTACCTGGAGCTGCTACCAGCGCTTCTGCGTGAGTGCCAGAGCCCCGATGAGCCTACC

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FIGURE 4642

GCGGAGCGAGAGGCTGAGAGAGTCCGGAGACACTATCCGCTTCCATCCGTCGCGCAGACCCTGCCGGAGCCGCTGC
CGCTATGGATGATCGAGAGGATCTGGTGTACCAGGCGAAGCTGGCCGAGCAGGCTGAGCGATACGACGAAATGGT
GGAGTCAATGAAGAAAGTAGCAGGGATGGATGTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGTTGCATA
TAAGAATGTGATTGGAGCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAAGAAAACAAGGG
AGGAGAAGACAAGCTAAAAATGATTGCGGAATATCGGCAAATGGTTGAGACTGAGCTAAAGTTAATCTGTTGTGA
CATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTCCAAGGTTTTCTATTATAAAAT
GAAAGGGGACTACCACAGGTATCTGGCAGAATTTGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCT
AGTGGCTTATAAAGCTGCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTGCTTAGGTCTTGC
TCTCAATTTTCCGTATTCTACTACGAAATTTCTAATTTCCCTGACCGTGCCTGCAGGTTGGCAAAGCAGCTTT
TGATGATGCAATTGCAGAACTGGATACGCTGAGTGAAGAAAGCTATAAGGACTCTACACTTATCATGCAGTTGTT
ACGTGATAATCTGACACTATGGACTTCAGACATGCAGGGTGACGGTGAAGAGCAGAAATAAAGAAGCGCTGCAGGA
CGTGGAAGACGAAAATCAGTGAGACATAAGCCACAAGAGAAACCATCTCTGACCACCCCTCCTCCCCATCCCA
CCCTTTGGAAACTCCCCATTGCTACTGAGAACCACCAAATCTGACTTTTACATTTGGTCTCAGAATTTAGGTTCC
TGCCCTGTTGGTTTTTTTTTTTTTTTTTTTTTAAACAGTTTTTCAAAGTTCTTAAAGGCAAGAGTGAATTTCTGTG
GATTTTACTGGTCCCAGCTTTTAGGTTCTTTAAGACACTAACAGGACTACATAGAGGCTTTTTCAGCATTACTGT
GTCGTCTCCGTGCCAGATGTGGCAAGATCACCATTAGCAAATGGAAATTACATTTGAAAGCCATTAGACTTATAG
GTGATGCAAGCATCTAAGAGAGAGGTTAATCACACTATAGAGGCATAAGTGGTATCAGTTTTCATTTTTCTAATT
GTTTAACTGTGTTTTATACCAGTGTTTGCAAGTAATTGGGTGTAGCTTGAGATGGTTAAAGGTGGTTTGGGGA
GGGACTTCGTTGTAATGGTTTTGCTGTAAAAAATGTTTCCAACCTCCGCTGAAATGTTGCTGAAAAGCATGGTGCT
GGTAACAGTTCAACAATCCGTGGCTGCTCATTCTTGCTACTTTACTCTCCCCTGAAGCAGGTTAGCGTTGAAG
GTGGTATGGAAAAGCCTGCATGCCTGTTCAATTCTTTGTTTCTTCTCCTTCCCCCTCCCCCTACCTCCTTCCCC
TCACTCCTCCCCCTCCTTCGCTCGCTCAACCTCTTTTGTTTCAAGTATGTGTAACCTGAAGCTAATTTGTACTACTGG
ATATCTGACTGGAGCCACAGATACAGAATCTGTATTGTTTCTTACTGAAACACAGCATGGAATTAACATTAACTT
AAATAAAACAAACCTAAATTAAAAA

5029/6881
FIGURE 4643

MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIGARRASWRIISSIEQKEENKGG
EDKMKMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVFYKMKGDYHRYLAEFATGNDRKEAAENSLV
AYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDSTLIMQLLR
DNLTLTWTSMDMQGDGEEQNKEALQDVEDENQ

5030/6881
FIGURE 4644A

CTCGCCCCCTCCGCGCTCGCAACTTCGGCCTCCCCCGGCTCCCCCGCTCTCCCTCCTTTGTTGCGCGATGAGGG
TCGGGTTTCGGATCTGACCGAGCCGCCGCCGGGATGGAGCCGCTCAGCCACCGGGGCTGCCGCGCTGTCTT
GGATCGACACCCTCTACAGCAACTTCAGCTACGGGACGGACGAGTACGACGGAGAGGGGAATGAGGAGCAGAAGG
GGCCCCCGGAGGGCTCAGAGACCATGCCGTACATCGATGAGTCCCCACCATGTCCCCGAGCTCAGCGCCGCA
GCCAGGGCGGGGGGATGGCGTCTCCCCGACTCCACCTGAGGGACTGGCTCCTGGGGTGAAGCAGGGAAAGGCC
TGGAGATGAGGAAGCTGGTTCTCTCGGGTTCTTGGCCAGCGAAGAGATCTACATTAACCAGCTGGAAGCCCTGT
TGCTGCCCATGAAACCCCTGAAGGCCACCGCCACCCTCCCAGCCGTGCTCACCATCCAGCAGATCGAGACCA
TCTTCTACAAGATCCAGGACATCTATGAGATCCACAAGGAGTTCTATGACAACCTGTGCCCCAAGGTGCAACAGT
GGGACAGCCAGGTCACCATGGGCCACCTCTTCCAGAAGCTGGCCAGCCAGCTCGGTGTGTACAAAGCGTTTGTCTG
ATAACTATAAAGTCGCTCTGGAGACAGCTGAGAAGTGCAGCCAGTCCAACAACCAGTTCCAGAAGATCTCAGAGG
AACTCAAAGTGAAAGGTCCCAAGGACTCCAAGGACAGCCACACGTCTGTACCATGGAAGCTCTGCTCTACAAGC
CCATTGACCGGGTCACTCGGAGCACCTTAGTCTACACGACCTGCTGAAGCACACACCTGTGGACCACCCCGACT
ACCCGCTGCTGCAGGATGCCCTCCGCATCTCCAGAACTTCTGTCCAGCATCAACGAGGACATCGACCCCGCC
GGACTGCAGTGACAACGCCCAAGGGGAGACGCGACAGCTGGTGAAGGACGGCTTCTGGTGAAGTGTGAGAGG
CCTCCCGGAAGCTGCGGCAGTCTTCTCTTTACAGATGTCTACTGTGTGCCAAGCTGAAGAAGACCTCTGCAG
GGAAGCACCAGCAGTATGACTGTAAGTGGTACATCCCCCTGGCCGACCTGGTGTTCATCCCCGAGGAATCTG
AGGCCAGCCCCAGGTGCACCCCTTCCCAGACCATGAGCTGGAGGACATGAAGATGAAGATCTCTGCCCTCAAGA
GTGAAATCCAGAAGGAGAAAGCCAACAAGGCCAGAGCCGGGCCATCGAGCGCTGAAGAAGAAGATGTTTGAGA
ATGAGTTCTGTCTGTCTCAACTCCCCACAATCCCGTTGAGATCCACAATCGGAATGGAAGAGTTACCTGT
TCCTACTGTCTCGGACTACGAGAGGTGAGTGGAGAGAAGCAATTCAGAACTACAGAAGAAGGATCTCCAGG
CCTTTGTCTGAGCTCAGTGGAGCTCCAGGTGCTCAGAGATCCTGTTTCAAGCTTAGGACTGTACACAACATTC
CTGTACCAGCAATAAAGACGACGATGAGTCTCAGGACTCTATGGCTTCTTCATGTCTCATCTGCTCCACTCTGCCA
AGGGATTTAAGCAATCAGCCAACCTGTACTGTACCCTGGAGGTGGATTCTTCCGCTATTTTGTGAGCAAGCCA
AAACCAGGGTGTTCCGGGACACAGCGGAGCCCAAGTGGGATGAGGAGTTTGAGATCGAGCTGGAGGGCTCCAGT
CCCTGAGGATCCTGTGCTATGAGAAGTGCTATGACAAGACCAAGGTCAACAAGGACAACAATGAGATCGTGGACA
AGATCATGGGCAAAGGACAGATCCAGCTGGACCCACAACCGTGGAGACCAAGAACTGGCACACGGACGTGATTG
AGATGAACGGGATCAAAGTGAATTTTCCATGAAATTCACCAGCCGAGATATGAGCCTGAAGAGGACCCCGTCCA
AAAAGCAGACCGGCGTCTTCGGTGTGAAGATCAGCGTGGTGACGAAGCGGGAGCGCTCCAAGGTGCCCTACATCG
TCCGGCAGTGTGTGGAGGAGGTGGAGAAGAGGGGTATCGAGGAGGTGGCATCTACAGGATATCGGGCGTGGCCA
CGGACATCCAGGCGCTCAAGGCCGTCTTCGATGCCAATAACAAGGACATCCTGCTGATGCTGAGTGACATGGACA
TCAACGCCATCGCCGGGACGCTCAAGCTGTACTTCCGGGAAGTGCAGGAGCCGCTCCTCAGGACCGACTCTACC
CAGCCTTCATGGAGGGCATCGCCCTGTCTAGACCCTGCTGCCAAGGAAAACATGCATGATGCACCTGCTCCGCTCCC
TGCCCCGACCCCAACCTCATCACCTTCTCTTCTGCTGGAACACTTGAAAAGGGTTGCCGAGAAGGAGCCCATCA
ACAAAATGTCACTTCACAACCTGGCTACCGTGTGTTGGACCCACGTTACTGAGACCCCTCAGAAGTGAGAGCAAAG
CACACCTCACCTCGGCTGCGGACATCTGGTCCCATGACGTCATGGCGCAGGTCCAGGTCTCTCTACTACCTGC
AGCACCCCCCATTTCTTCGAGAATCAAGCGGAACACACTGTACTTCTCCACCGACGTGTAGCCCGAGGCAG
GGTGGCTGCGGGCGGGTGGTGAACCAAGCCCTCCAGCCTGGGGTCCAAGTCAAGTGAAGACTGCAATAGAA
AACTCCCAAACCCAGCACTCCAGACTCGAGGGAAGCCAGCTTCCAAGAACTGGAATGCGTACGCTTTTGTGCCA
CCTTGTAAGCCGGCTGCCAGCCCCAGCCTCACCACCGCATCCACCTCCTGCCCTCCATACCTCTAGTTGT
GTCTGATGCTCCGTGCTGTTTGGGAATTGTTTTATGTACTTGTCTAGGCAGAAAAGGTAGTGACCGGCCCGCG
TGGGCACACAGACAGCCGCTTTGTTCTTTTCAATTTCTTCCAGCACTTTCTTTCCGCTGAGTCCAGCCCAAGGCC
TTTTATTTGCGCIGTGAAGTGTGCTGCCAGCTTCTTGGCCCTGCTCCAGATGGCGGTCTCCTGGCAGCCTCC
CCTCAGTCTTCTCCACCCGCTCTTCTTCCCAGCCTGCTGATGATGTCACCTTGGTCTTCGCTCCATCG
CCTTGAAAGCTCTGAAGAGGCCCTGGGTGCGCGGCAGCAGTGGTCTGTTGATGCTGCCGTTTGGCGTGGCG
GCCCCCTCTCAGACTCCGCCTTTGGGAGCACACCTGCTTTGCCCTGCTGCTGTGCAAATGTTGGACAAGCAGAC
AACTCACACTCGTCCCCAGCTTAGCACAGAGCTGGAGCGCCCATTTCTGGAATTTTCCGTTTGGGAATCTCCAC
TTCTGGGGTTTACCTGTTGCGCCTCTGCTATCAGTGAGGCATCTCTGACTGTTTCTTCTACTGCTTTTCAAGT
CCCTTCCCTGCTGTTCTATTTCTTTGAGTGTAAGACTCACAGGTGACCTGCTATCGAGATAGCCAGAGGGTCA

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FIGURE 4644B

GGAGAGAATGGGGGAGGAGGCGGTCTAGGCTGCTGAGGAAACACCACAGGCTGAACGGGGGAGGAATGCACATGCC
ACGCTGGGTGTCCCGGTCGCGGGGAGGCAGCTCAGCTCTTAGGAGCAAGTTGTGGGGGCTTTTCAAGAGGGGCC
AGGCTTCCTGGAGGGTGA CTGATGTGGCCGAAGCAGGTGTCCAGGCAGGTAGGCTGCAGCCAGGAGCTCCCTGGC
ACCGCAGGACCTCGTGGTACTCTTGCCCTTAGATTTTACACACACTCCACAGCCAAGCACTGCCACGGTCTCCAG
GACCTGGGAAGCAAAGGCACAGGCCACGGTGGCCAGCCATTGTGGTGCTGCCCCAGCTTCTGGATACAGCCTTT
TGGGTAAACACTGGGA ACTCCAGAAGTTGTGGGGAGAGTGGGGAATCAGACAGCCGCCTCTAGGGGCTGGGTCT
GCTGGGGCTCCTTGTGGTGCTGTAGGCACCCGCCAGGGAGCAGGGACCCGACTTGCAGACGCATTGCCCGGTA
CTAGGAAGGAGTGAGGTGTGTTCCACCGTACACTTCCACACAGAGCTGCGGCTGCCAGCCTCGGGCCATCAGCC
TAGGAGAGCAGATGCAGCTCCAGGGGCTCGACTTATAGCCAGTTACAGCTCCCCGGCTCTTCTGTGTGGCAGAGC
GTCGTTTCCGGGCTCTCAGGGCTGGGGAGCTCAGTTCCCATTTGCTTGTGCTCAGGGCTGAGTCTTAAAGAAGGGT
TTGCCGGCCCTAACGCTGCAGCGCGTGC GCGGAGAGAGGCCCTTTTTGAGCCTGTTTACTCTGTGGCCTTGGGC
AGAACAGTAAATACTCTGTGCACGAGGAAAGACATGCCCAAGAGGAAGGAAGTACTGACCATCGGCTGCCTGTG
AGCAGCTTAGCAAGGAGCCCTTGCTCCCTGGGAAAGGCGGTGA ACTTGAGTCTAAAGATGCAGTGCCTGGCCCTT
CCTAAGGTCCCTGCCTGGCATCCGAGTGTCGGTGTGTGGCACAGAAGGCTCCTGCTTGCTTCCAAAGTGATGGAC
AGGAAGGGGCGAGTGAGTCACGGCCCAGACTGGGCACCTTCGCGTCTCAGCCTCAGGGAGCCCCACAGCCCCAA
GCTCGCTGAGGCAACGTGAGAACAGGCTATGGGAAGGCTGCAAAGGCTGAGAAATGCAAAGGCTCATATTTATAA
ATCCCACCCCCAGAGTGGGGAGGGTCAGGTGCCAGACCTGGACTAAACTGCACCAAGGAAACACCCAGCAGGGTC
TCCTGTGAGCCGGGGACCATGCAGCCCGAAACCTCCAGTCACTGCGCCCGGCAGGAGTCAGGAGCCAGGGACTGT
GCAGCCTGGAACCTCCAGTCACTGTGCCCAGCAGGGTGGGCTGTGCCAGCAGGAGTCAGGCTAAGAAACGCCAG
GTCTGCCTGTTCTTGCTGGGCAATGGCTGATGGCTGCCAGTTTCTGCTGATACACAGGTAGGATGGGACCCCTTCA
TGAATATCTGACTTTAATAAGTTGGTAAGGATATATTTTTTTGTCTATGTTCTGTTTCAACTTATGTAGATTATT
ATAAATTGATGTAAACCACGTGAGAGGAAAATGTTAATAAAAAATGCAAAGCCCCATCATTTGCACAAAACCTC

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FIGURE 4645

GGGACCGAAACCCCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAACAATGGGCAGTCTCTGGAGAGCAGCAG
CCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCGCCCTGCCGAAGCCTCACCCGGGTCTCT
GGTGGAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAGATCATCTTCGTTAGTGCAGACAGGTTCGGA
GGAGTCTTCAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCCCTACACGGATGAGGCCCGGCGGTTCGCG
CCTCAACCGGCTGTACGGAATCCAAGGCATCCCCACGCTCATCATGCTGGACCCGAGGGCGAGGTGATCACGCG
GCAGGGGCGGGTGGAGGTGCTGAACGACGAGGACTGCCGGGAGTTCCCTGGCACCCCAAGCCCGTGTGGAGCT
CTCCGACTCCAACGCCGCGCAGCTTAACGAGGGGCCCTGCCTCGTCTTTTGTAGATTCTGAGGATGACGGAGA
GTCCGAGGCGGCCAAGCAGCTGATTAGCCGATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGA
GGCACCCCTTCTGTTCTTCGTAGCCGGGGAGGATGACATGACTGACTCCCTGCGAGATTACACCAACCTGCCTGA
GGCTGCCCCCTTGTCTACCATCTTGACATGTACAGCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACCCC
CGCCATCGTGAGGGCCTTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCCATCTAGCGTGGCTCCGG
CCTCCTGAGACGTTATTTAAACTCAGCCTTCTCCTCCTCCCCCTCCTTCTTCCGCCCTTGGACTTACCCAGCG
TGCCCCGAATCCACCACCCCAAGTGTCCAGCCTCTCTGTGGTGCCTTGTTCTGCAGTAAACTCCTCAGCCAGCA
CCCTGGGGTGTGGAATCAGCAGCGGCAGAGTCCACCGTGTITGGAGACTCTGTTTGGGAGCACGGGATGGCCGGG
GGCCCGGCCAGAGCGGGGCTGCATGGCTTTCGCAAAGTCACTAGCTTTTGGTGAAGGATCTGCCAGGGTGTCTTG
GGCAGAGTGAGCGTGGAGGGCCGGTGGGTCCCGCTCGGGCTCTGACTCTGACGTCGGCACACACGGCCCCGGACG
GCCAGAGGGGAACCGCCGGGTGACACCTGCGTGGAGGCTGAGCTGAGAAAGGGCCTCCGCTTAGAGCTGCGGGTG
AGGACGTCTTTTCTAAGCAACACAGTCTTCCTCGGTCTGAGAGAAAAGCAGCCCACTCTGTGTTCTCAGGCAG
GGGATCTCCAAATGCAAAGGAAGCTTGTAGAGGTTTTTGGGTGAGAAGAAAAATGTAGCTAAGGTAATGGTTC
ATATCATACAAACAGCTCCCACGATCCTGAAATTCTGTTAACGAATCCTTCTCTTTGGACATCTTCCCAAGAAAC
TTAGCCCTGAGTCTTAGGAGGAGCACCTCTGCACCAGCACGGACCTCTCGCTCCACCCAGCTCTGTGCCCAAGGC
CCCTGATCTCTGCTGAGGTGCCACACCCACGTTGATCACCCCTGCCATTCCCTTTTATTTTCTTTTTTTTGGAG
ATGGAGTCTTGTCTGTGCGCCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACTTCAACCTCCGCCCCCAAGG
TTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCCGCCACCGTACCTGGCTAATTTT
TGTATTTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACC
CGCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCGCCGTGCCCGGCCCTTTTCTTTTCAAAGCAGA
ACTACAAAGATGAGAAATTACCAGAAGCCTCGCCTTTTCTAAGCACCAGCGGAAGGAGCTGTGCCCGGGATGG
AGTGAGGGTGGAGGGCGCGTCAGCCACGGGTGGGCTTGTGTGCGCTTGTATCGGCCCAGGTAGGTTGTTGGCCT
CTTACTTGGGCTGACCTGACCCCGAAAGAGAAAACAGACAACCTCTGTCTCAGGATTGGGGATGGACGGCTTCGG
CCAAGCGTTTTAGCCTCATTCACTCAGGCCCCACTCAGCACTCTGCCAGCCAAGACCATTGATTGGAAAATCCG
GTCCCCACCCGCTAATGAGCTGTTGACACTGTTGTTCCCTTGTGTAATTGGATTGTTGACTTGTAGTTTACAGGCG
TACAACTAGTTGGCGATTAGACTTGTTATGTGATGTTACCAGCCTGAAATGCGATCACCCCGTAGGAAATAAAGC
AGGCATCTCTGGACCTC

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FIGURE 4646A

TGGCCGTTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGACTGCTGCTGTGCCCATTACCCTGTGGCCGTG
TGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCT
CTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCCA
TTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGT
GGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGT
GATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCTGTGTGATTGCTCT
GTGCCCATTATCCTGTAGCCGTGTGATTGCTTCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTGCTGTGCCCCA
TTATCCTGTGGCTGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTCTGTGCCCATTACCCTG
TGGCTGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTGCTGTGCTTACCCTGTGGCTGTG
TGATTGCTCTGTGCCCATTACCCTGTGGCTATGCTCCCTTCATCTGTCATGAGAAGCTCAGCTGTCATGCTCCTGT
GGTACATGCTCAGTGGCCCTGTAGTTTGTACTGCTCCTATTTCTAAACCCCTCTCCCCACATCCTCTGCTGG
CCCAGCCTTTGCTGGAGGGTCTCGCCTCAGCAGCCAGCTTTTCTTTTACACACTTTTCTGAAGGATCTCAT
TCACCGTCTTGGTTCCGGTGATCCCTCTGGGCAGATACCTCTCAGAATCACATTTCCAGCTTACTTCCCTCCT
GAACTTCCACCTGGCATTTCGTTGCTGGAGGACATCTGTACCTTGATGGCCAAAGCTGAATCATCTTTCTCA
CACCTGCTCTGATTCTCCTCCATTCCCTGTATGTGATGTACCTGGTGGCCTCCAGTTCCAGGCTGGAGAGCT
CGGAAGCCATTCTGGATTCTCGGCCAAGTCCTTCTGACTCCAGCTGTGCACTGGCTCTTGTAGTCATCCCTTCT
CCCCGTCCGCTGATGTCTTTAAACCCCTGTCTCTCAAACCATGACAGCCTACTAACAGCAGTGGCCATCTGG
AAACATTTTCACTATACTGTCTTATTTGGCTTGTCTGTGTGCAGGACCCTTGAACATCTGTGAAGAAATGACTAT
TCTGCATGGAGGCTTCTTGTGCGCGAGCAGCTGTTCCACCCTAAGGCACTGGCAGAATTAACAAAGTCTGACTG
GGAACGTGTTGGACGGCCCATCGTGGAGGCTTAAGGGAGATCTCCTCGGCTGCAGCACACTCCAGCCCTTTGC
CTGGAAGAAGAAAGCCCTGATCATCATCTGGGCCAAGGTTCTGCAGCCGCACCCCGTGACCCCGTCCGACACAGA
GACACGGTGGCAGGAAGACCTGTTCTTCTCGGTGGGCAACATGATCCCCACCATCAACCACACCATCCTCTTCGA
GCTGCTCAAATCCCTGGAAGCTTCTGGACTCTTTATCCAGCTCCTGATGGCCCTGCCCCACCACATCTGCCATGC
AGAACTAGAGCGCTTTCTGGAACATGTGACCGTTGACACTTCTGCCGAAGACGTGGCCTTCTTCTGGACGCTCTG
GTGGGAGGTGATGAAGCACAAGGGTCACCCGACGAGCCCCCTGCTCTCCAGTTTAGTGCAATGGCCCATAGTA
CCTGCTGCTTATGATGAGTTCCCCCATCTCCAAAGAGGCTTAGGTCAGACCCAGACGCGTGCCCCACCATGCC
CCTGTTGGCCATGCTGCTCCGCGGGCTGACACAGATCCAGAGTCCGATCCTGGGCCCGGGGAGGAGTGTCTGTCG
GCTGGCCAACCTGGCTGACATGCTGACTGTGTTTGCCTGACAGAGGACGACCCCCAGGAGGTGTCTGCAACCGT
GTATCTGGACAAACTGGCCACGGTGATCTCTGTGTGGAACTCGGACACCCAGAATCCCTACCACCAGCAGGCGCT
GGCAGAGAAGGTGAAGGAGGCAGAACGGGATGTGAGCCTGACCTCGCTGGCCAAACTXCCCCAGTGAGACATTT
TCGTGGCTGCGAGTTCTGTCACACCTGCTGCGGGAGTGGGGGAGGAGTTGCAGGCCGTGCTCCGACGAGCC
AGGGGACAAGTTACGACAGCTACCGGCTGTGCGACAGTCTGACTTCTTACGCCAGAACGCGACGCTCTACCTGA
ACCGCACCAGCCTGTCCAAGGAGGACAGGACGGTGGTCTCTGAGCTGGCGGAGTGTGTACAGGACTTCTTGAGGA
AAACGAGCACGGTGTGTAAGAACAGGGCCTTGGAGGATATCACAGCTTCCATTGCCATGGCCGTATCCAGCAGA
AGATGGACCGCCATATGGAAGTGTGCTACATTTTGCCTCTGAGAAGAAGTGGGCCTTCTCGGACGAGTGGGTAG
CCTGCTGGGGAGTAACAGGGCCCTCTTCCGACAGCCAGACTTGGTGTGAGGCTGTGGAACAGTGATAGACG
TCAGCACAGCTGACAGAGCCATCCCTGAGTCTCAGATCCGGCAGGTGATCCACCTGATCCTGGAATGTTACGCAG
ACCTCTCCCTGCCAGGTAAAAATAAAGTCTTGCAGGTATCCTGCGTTCTTGGGGCGAAAGGGCCTCTCTGAAA
AGTTGCTGGCTTATGIGGAGGGTTTTTCAGGAAGACCTCAATACAACCTTTTAACCAGCTCACTCAGAGTGCCTCCG
AACAGGGCTTGGCAAAAGCTGTGGCCTCCGTGGCCCGCCTGGTCATAGTGCACCCGGAAGTCACGGTGAAGAAAA
TGTGCAGCCTGGCTGTGGTCAATCTCGGCACCCACXAXGTTCTGGCCAGATTCTCACTGCCTTCCCTGCCCT
TAGGTTTGTGGAAGAGCAGGGTCCCAATTCTATCTGCCACTTTCATGGTGTGATGCCTCAAAGAAACCGTCTGGAT
GAAGTTCTCTACACCCAAGGAAGAAAAGCAATTTTTAGAGCTCCTGAACTGCCTGATGAGTCCCGTGAAACCCCA
AGGGATTCCAGTGGCTGCTCTTCTTGAAGCAGACGAGGTGTGAAGGAATTTGCTGCTTCTTCTGAGGTTAGA
TGTTGAAGAGGTAGACCTCAGTCTGAGGATCTTATCCAGACTCTAGAGGCAAACGCGTGCCGAGAGGAATACTG
GCTCCAGACCTGCTCCCCGTTTCCACTCCTCTTCACTTGTGCCAGCTCTTGGACCGCTTACAGCAAATACTGGCA
GCTTCCCAAGGAGAAGCGGTGCCTCTCTTTGGATAGGAAGGATCTAGCGATCCATATCCTGGAGCTCCTGTGTGA
GATTGTATCAGCCAATGTGAGACCTTCTCCCCGATGTCTGGATCAAGTCCCTGTCTGGCTCCACCGCAAGTT

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FIGURE 4646B

AGAACAGCTAGACTGGACTGTGGGCCTGAGGCTGAAGAGCTTCTTCGAGGGGCACTTCAAGTGTGAAGTGCCAGC
CXACAXCTTTTTGAGATCTGTAAGCTTTCAGAAGACGAGTGGACCTCCCAGGCCCACCCAGGGTACGGGGCTGGC
ACGGGGCTCCTGGCCTGGATGGAGTGCTGCTGCGTCTCCAGCGGCATCTCGGAGAGGATGCTGTCTCTCTTGGTG
GTGGACGTGGGCAATCCTGAGGAGGTCAGACTGTTTCAGCAAAGGCTTCTGGTGGCCCTGGTGCAAGTCATGCCT
TGGTGCAGCCCTCAGGAGTGGCAGCGCCTTCACCAGCTGACCAGGAGACTGCTGGAGAAGCAGCTCCTCCATGTC
CCTTATAGCCTGGAATATATTTCAGTTTGTTCCTGCTCAACCTGAAGCCCTTTGCCAGGAGTTGCAACTCTCC
GTCCTCTTCTGAGGACTTTCAGTTTCTCTGCAGCCATAGCTGTCGTGATTGGCTTCTCTGGAAGGCTGGAAC
CACGTGGTCAAACCTCTCTGTGGCAGTCTGACCCGCCTCCTGGACTCAGTCAGGGCGATACAGGCAGCTGGCCCT
TGGGTTCAAGGACCAGAGCAGGACCTGACCCAGGAAGCCCTGTTTGTTCACCCAGGTGTTCTGCCATGCTCTG
CACATCATGGCCATGCTCCACCCGGAGGTCTGTGAGCCACTCTACGTTTTAGCCTTGGAACCCCTCACCTGCTAT
GAGACTTTGAGCAAGACCAACCCTTCTGTCTAGCTCCTTGCTCCAGAGGGCACACGAGCAGCGCTTCTTAAAGTCC
ATTGCTGAGGGCATCGGCCCTGAAGAACGGCGCCAAACCCTGTTGCAGAAGATGAGCAGCTTCTGACTTGGCGTG
GGGAGCTGGGCCCCAACATGGCGGGTCTGCAGAAGATCAGCAGCTTCTTACCTGTGCGGGAGCGAAAAAGCTGGG
CTTCAACATGGCAGGTCTGTAGGGGTCAGACCCGAGCAGCCTGGACTTTACAGTTATGTGAAACTGTCCACAAAA
AGTCATGGCAATAATGGTGTAAGAAAATAGTTTCTTGGGTATTTGTAACGTACAACTATCATAAAAATTCCTCC
TCTTTCGC

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FIGURE 4647

CCAACTTCGGCTATGACCTGTACCGGGTGGCATCCAGCATGAGCCCCACGACCAACGTGCTCCTGTCTCCTCTCA
GTGTGGCCACGGCCCTCTCGGCCCTCTCGCTGGGAGCGGAGCAGCGAACAGAATCCATCATTACCGGGCTCTCT
ACTATGACTTGATCAGCAGCCCAGACATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCCCAGA
AGAACCTCAAGAGTGCCTCCCGGATCGTCTTTGAGAAGAAGCTGCGCATAAAATCCAGCTTTGTGGCACCTCTGG
AAAAGTCATATGGGACCAGGCCCAGAGTCCTGACGGGCAACCTCGCTTGGACCTGCAAGAGATCAACAACCTGGG
TGCAGGCGCAGATGAAAGGGAAGCTCGCCAGGTCCACAAAGGAAATTCCCGATGAGATCAGCATTTCTCCTTCTCG
GTGTGGCGCACTTCAAGGGGCAGTGGGTAACAAAGTTTGACTCCAGAAAGACTTCCCTCGAGGATTTCTACTTGG
ATGAAGAGAGGACCGTGAGGGTCCCCATGATGTGCGGACCTAAGGCTGTTTTACGCTATGGCTTGGATTGAGATC
TCAGCTGCAAGATTGCCCAACTGCCCTTGACCGGAAGCATGAGTATCATCTTCTCCTGCCCCTGAAAGTGACCC
AGAATTTGACCTTGATAGAGGAGAGCCTCACCTCCGAGTTTCATTCATGACATAGACCGAGAACTGAAGACCGTGC
AGGCGGTCTCACTGTCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAAGC
TGCAATCCTTGTTTGATTACCCAGACTTTAGCAAGATCACAGGCAAACCCATCAAGCTGACTCAGGTGGAACACC
GGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACCACCCCAAGGCTGCAGCCTGCCACCTCACCT
TCCCGCTGGACTATCACCTTAACCAGCCTTTTCATCTTCGTACTGAGGGACACAGACACAGGGGCCCTTCTCTTCA
TTGGCAAGATTCTGGACCCCAAGGGGCCCTAATATCCCAGTTTAATATTCCAATACCCTAGAAGAAAACCCGAGG
GACAGCAGATTCCACAGGACACGAAGGCTGCCCTGTAAAGTTTCAATGCATACAATAAAAGAGCTTTATCCCT

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FIGURE 4648

ATGGAAGAAGGCTCGGGGGCCGACGCCACCCCGGACCGCCGGCCAGCCCCGGTACCTCCTCACC GCAATGGCCC
CCTCGCTCAGCTGGCCGACCATGGCTCCACCGCCAAGACTTCCCCGCGGACCCGCAACAGCTCCAGCTTCCCCA
CCCGGACCTGAGGATGAGCTGTTTCTAAAAAGACTTTCTAAAGGTTACTTGGTGGGAAAGGACTCGGACGCTCCT
CTTTTCTACAGAGAAGAAGGAAACAAAAAATTCAGGAGAAAGATTACACAGGAGCTGCAGTGTGTACTCTAAG
GGAGTGTACATTCAAGGCCTAACACTGAGGACATGTCACTGTGTCATGCTAACGCTCGGCAGCCCTCTTCCAC
CTGGGTCAGTATGAGACGTGTCTTAAAGACATTAACAGAGCACAGACACATGGGTATCCAGAAAGGTTGCAACCC
AAGATTATGTTACGTAAAGCAGAATGTCTGGTGGCCCTGGGGAGACTGCAGGAGGCAAGCCAGACCATCAGTGAT
CTTGAAAGGAACCTTCACAGCCACACCAGCCCTAGCAGATGTCTCCCTCAGACTCTGCAGAGAAACCTCCATCGT
CTGAAATGAAGATGCAAGAAAAGGACAGTCTCACAGAAAGCTTCCCAGCAGCTCTGGCCAAAACCTTGAGGAT
GCAGCGCTGAGGGAGGAGAATGAACAACCTTTCCAATGCCTCATCATCCATCGGCTTATGCGTAGATCCTTTAAAA
GGTCGCTGTCTCGTTGCCACAAAAGATATTCTCCAGGAGAGCTCCTGGTGCAGGAGGATGCTTTTGTGAGTGTT
CTCAACCCAGGAGAACTGCCACCACCGCATACGGCCTAGACAGCAAATGGGACACCAGAGTCACCAATGGGGAC
CTCTATTGTCAACGATGTTTGAAGCACACTTTGGCCACAGTTCCTGTGTACGGATGCAGTTATGCCAAGTATTGC
AGCCAGGAGTGTTTGCAGCAGGCCTGGGAGCTCTACCACAGGACAGAATGTCTCTGGGAGGGCTGCTTCTCACA
CTGGGTGTCTTTTGCCACATTGCCCTGAGGTTGACTCTTTTGGTGGGATTTGAGGATGTTTCGCAAAATCATAACG
AAGCTTTGTGATAAGATTAGTAACAAGGACATCTGTTTACCTGAAAGCAACAATCAGGTCAAGACACTTAATTAT
GGCCTAGGGGAGAGTGAGAAAAATGGCAACATCGTTGAGACCCCAATTCTGGATGCGATATTAATGGGAAGTAT
GAAATAAATTATAATGCTGTCTTCAACCTTTTGGCCACACTGAAAACCATAGCCCAGAGCACAAATTCCTCTGT
GCTCTCTGTGTTTCTGCACGTGTCAGACAGCTAGAAGCAGCCAGTTTACAGGCCATCCCAACTGAGAGGATTGTG
AACTCCTCTCAGCTTAAAGCAGCAGTGACACCTGAATTGTGTCTGACGTGACTATTTGGGGAGTGCGGATGCTG
AGACACATGTTACAGCTTCAGTGTAACGCTCAGGCGATGACCACCATAACAACACACAGAGCGAGCTGTTCAGCGG
CTGTGCGGGGTGCCAGCGTGACGCCGAGAGCTTCTGTGGGCAGAGCACGCCGTGGTGGGAGAGATCGCGGATGGC
CTGGCCCCGGGCTGTGCTGCCCTTAGGAGACTGGCAAAAGTCAGCCACCCATCTACAGAGGAGTCTCTACGTGGTG
GAGGTTGCGCCACGGGCCGTCCAGTGTTGAAATGGGCCATGAGCTCTTCAAATTGGCCCAGATCTTTTCAACGGG
TTTGAGTACCCGAAGCCCTGAGCACAATACAGAAAGCTGAGGAGGTTCTGTGCTGCACTGTGGCCCATGGGAC
GATGAAATCCAGGAGCTCCAGAAGATGAAATCCTGTTTGTGGACTTACCACCCACCCCTGTAGGGCCTGCATTG
TAG

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FIGURE 4649

MSLCHANRSAALFHLGQYETCLKDINRAQTHGYPERLQPKIMLRKAECLVALGRLQEASQTISDLERNFTATPAL
ADVLPQTLQORNLHRLKMKMQEKDSLTESFPAALAKTLEDAALRENEQLSNASSSIGLCVDPLKGRCCLVATKDIL
PGELLVQEDAFVSVLNPGEPPPHHGLDSKWDTRVTNGDLYCHRCLKHTLATVPCDGCSYAKYCSQECLQQAWEL
YHRTECPLGGLLLTIGVFCHIALRLTLLVGFEDVRKIITKLCDKISNKDICLRESNNQVKTLNYGLGEMLKWAMS
SSNWPRSFSSTGLQYPKP

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FIGURE 4650

AGAGTAGTTATCTTGATGGAAXTTAGAAGTTTTGAAGTCAGCTGAAGCAGTTGGAGTGAAGATTGGCAATCCAGT
GCCCTATAATGAAGGACTCGGGCAGCCGCAAGTAGCTCCTCCAGCGCCAGCAGXCCAGCCCAGCAGCAAGCAGCA
GGCCCCAGXCCGCXAXGAATGGAAGCTCGGGAATGGGTTCTACTGTTTCTAAGGCTTATGGTGCTTCAAAGACAT
TTGGAAAAGCTGCAXGGTCCCAGCCTGTACACACTTCTGGGGGAACAXCAGTCCAAAGTGGTGCCCATTTGCCAG
CCTCACTCCTTACCAGTCCAAGTGGACCATTTGTGCTCGTGTTACCAACAAAAGTCAGATCCGTACCTGGAGCAA
CTCCCGAGGGGAAGGGAAGCTTTCTCCCTAGAACTGGTTGACGAAAGTGGTGAAATCCGAGCTACAGCTTTCAA
TGAGCAAGTGGACAAGTTCTTTCTCTTATTGAAGTGAACAAGGTGTATTATTTCTCGAAAGGCACCCCTGAAGAT
TGCTAACAAGCAGTTCACAGCTGTAAAAATGACTACGAGATGACCTTCAATAACGAGACTTCCGTATGCCCTG
TGAGGACGACCATCATTTACCTACGGTTCAGTTTGATTTACGGGGATTGATGACCTCGAGAACAAGTCGAAAGA
CTCACTTGTAGACATCATCGGGATCTGCAAGAGCTATGAAGACGCCACTAAAATCACAGTGAGGTCTAACAACAG
AGAAGTTGCCAAGAGGAATATCTACTTGATGGACACATCCGGGAAGGTGGTGACTGCTACACTGTGGGGGAAGA
TGCTGATAAATTTGATGGTTCTAGACAGCCCGIGTTGGCTATCAAAGGAGCCCGAGTCTCXTGATTTTCGGTGGAC
GGAGCCTCTCCGTGCTGTCTTCAAGCAXCTATCATTGCGAATCCTGACATCCCAGAGGCCATATAAGCTTCGTGGA
TGGTTTGACGCAGAAGGACAAGCCTTAGATGGTGTTCATCTCTGATCTAAAGAGCGCGGAGTCGGAGGGAGT
AACACCAACTGGAAAACCTTGTATGAGGTCAAATCCGAGAACCTGGGGCCAAGGCGACAAGCCGGACTACTTTAGT
TCTGTGGCCACAGTGGTGTATCTTCGCAAAGAGAACTGCATGTACCAAGCCTGCCCGACTCAGGACTGCAATAAG
AAAGTGATTGATCAACAGAAATGGATTGTACCGCTGTGAGAAGTGCGACACCGAATTTCCCAATTTCAAGTACCGC
ATGATCCTGTCTAGTAAATATTGCAGATTTTCAAGAGAATCAGTGGGTGACTTGTTTCCAGGAGTCTGCTGAAGCT
ATCCTTGGACAAAATGCTGCTTATCTTGGGGAATTTAAAGACAAGAATGAACAGGCATTTGAAGAAGTTTCCAG
AATGCCAACTTCCGATCTTTCATATTAGAGTCTAGGGTCAAAGTGGAGACCTACAACGACGAGTCTCGAATTAAG
GCCACTGTGATGGACGTGAAGCCCGTGGACTACAGAGAGTATGGCCGAAGGCTGGTCATGAGCATCAGGAGAAGT
GCATTGATGTGAGAGGAGCAGTGCCAATCGGGCAGAAGTTTGCAAATAGGCAGAATGGAATCGATTTCTCCAC
CTCCGTGTGACGATCCCATGTTAGCTACACAGTGCAGAGGCTCTTGATGGTGGACTAAGCAATTTCTCCCTCGT
GCGCATCTCAGAACCCATCGGTAGGCAAAGGAAAATACGCTCAGGTGGTTGTGGTGTAGACTGTGTCAGGCCTAC
GGAGTCAGCCAGTGGTAGCGCAAGACCAGTCACTCCCTCTGCCTTCAGGCTTCTGTCAATTTCAATTATCATCAA
GCAGGAATTATGTCGTAAGTCACTGACCCTAACTGCAGACCATGAAGTAAATTATGTAAGTAGGTTTTTGCTTCT
CCAGTGGTGACCACCCCCCCCCATCCCGCTCACAACCTGGGTCTTCTCAGCGGGCGAGCTGAGAAGCGGTCA
TGAGCACCTGGGGATTTTAGTAAGTGTGTCTTCCTA

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FIGURE 4651

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCAATGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGGGGTCTCTCT
TTTGGCATGTTGGCCGTGTTACTCCCTGGGAACTTTGAGTCTTATTGGAACTTGTGAAGTCCCTGTGTCTGGG
GCCAGCACTGATCCACACAGCTAAGTTTGCACCTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCGACA
CTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTTCCCACTATACCACTCTGGAGTGGTTGTCTCTGGTTCTTAC
TGTGTTGTCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCACTCATCTTCTTACACATTATTAC
ATCACCCATCTTTCTGTTTGTCTCTTATCTCCAGCCTGGGAAAAGTTCTCTCTTATTGTTTAGATCCTTTTG
TATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCTTG
TTTCTAAAGATGAGGTGGCTGXCAAAACTCCCTTTTTTGCCACAGCTTGCTACTCTCGGCCTAGAAGCAGT
TATTCTCTCTCCATATTGGGCTTTGATTTGTGCTGAGGGTCAGCTTTTGGCTCCTTCTTCTGAGACAGTGGAAA
CAATGCCAGCTCTXGTGGCTTCTXGCCCTGGGGACGGGCCGGGTGGGGGTGGGTTGGTGAGGCTTTGGGTGCCA
CTACCTGTGGGTTGCTGGCTTAAAGGACAATTCTCTTCAATTGGTGXAGAGCCAGGCCATTAAACCTACACAGT
GTTATTGAAAGAAAGAGAGGTGGGGTGGAGGGGAATTAGTCTGTCCAGCTAGAGGGAGATAAAGAGGGCTAGTT
AGTTCTTGXGAGCAGCTGCTTTTGAGGAGAAAATATATAGCTTTGGACACGAGGAAGATCCAGAAAATTATCATT
GAACATATTAAATGTTATTTCTTTTTCTTGGATTTCCXAGAAAAGCCTCTTAATTTTATGCTTTCTCATCGAAGT
AATGTACCCTTTTTTCTGAACTGAATTAAATACTCATTTT

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FIGURE 4652

MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITIYSWSLPMAMSICHRGTG
IALSAGVSLFGMSALLLPGNFESYLELVKSLCLGPALIHAKFALVFPLMYHTWNGIRHLMWDLGKGLKIPQLYQ
SGVVVLVLTVLSSMGLAAM

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FIGURE 4653

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGATGTGGGACC
TAGGAAAAGGCCTGAAGATTCCCCAGCTATAACCAGTCTGGAGTGGTTGTCCTGGTTCTTACTGTGTTGTCTCTA
TGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCAGCATCATCTTCCTACACATTATTACATTCACCCATCTTT
CTGTTTGTCAATTCITATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTGTATTTTCAGATCTC
CTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCTTGTTTCTAAAGATGAG
GTGGCTGXCAAAAACCTCCCTTTTTTGCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGTTAT

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FIGURE 4654

ATGGCCGCGCAGCGACCCCTGCGGGTCCTGTGCCTGGCGGGCTTCCGGCAGAGCGAGCGGGGCTTCCGTGAGAAG
ACCGGGGCGCTGAGGAAGGCGCTGCGGGGTCGCGCCGAGCTCGTGTGCCTCAGCGGCCCGCACCCGGTCCCCGAC
CCCCGGGCCCCGAGGGCGCCAGATCAGACTTCGGGTCTGCCCTCCGGAGGAGCAGCCTCGAGGCTGGTGGTTT
TCAGAGCAGGAGGCCGACGTTTTCTCCGCATTGGAAGAGCCCGCGCTCTGCAGGGGCTGGAGGAATCACTGGGG
ATGGTGGCACAGGCACTGAACAGGCTGGGGCCTTTTGACGGCCTTCTTGGTTTCAGCCAAGGGGCTGCGCTAGCA
GCCCTTGTGTGTGCCCTGGGCCAGGCAGGCGATCCCCGCTTCCCCTTGCCACGGTTTATCCTCTTGGTGTCTGGT
TTCTGTCCCCGGGGCATTGGGTTCAAGGAATCCATCCTGCAAAGGCCCTTGTCATTGCCTTCGCTCCATGTTTTT
GGGGACACTGACAAAGTCATCCCCTCTCAGGAGAGTGTGCAACTGGCCAGCCAATTTCGGGAGCCATCACCCTC
ACCCACTCTGGTGGCCACTTCATTCCAGCAGCTGCACCCAGCGTCAGGCCTACCTCAAGTTCTTGGACCAGTTT
GCAGAGTGAAGATCAAGAAATGTCTCTGCTCCTACATCCAGCTCCTCTAGGGGCAGCCTCCGTCATCCATGCCC
TCCAGGACCCCTCCACTCACTGCTGTGAGTGCCTCACCAGAACCAGTTAAGAGACAACTATCAATTCTTGAGA
CCCAAATTATAAGGGCCCTGCCCTGTACTGAAGAAAAGGGGAGCACAAGGCCTTAATGGACATTGACTTGTGAAA
ACGCAAACATGAATATGGTTGGAGAGCCCTGGATTAGGAGGGTGACATGGGGAAGGCAGAGGCTGGCACGATGGT
GACTGCCACATAATAAAGTGGTGATTTGGATTTTG

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FIGURE 4655

MAAQRPLRVLCCLAGFRQSERGFREKTGALRKALRGRAELVCLSGPHVPDPPGPEGARSDFGSCPPEEQPRGWWF
SEQEADVFSALEEPAVCRGLEESLGMVAQALNRLGPFDDLGFSSQGAALAALVCALGQAGDPRFPLPRFILLVSG
FCPRGIGFKESILQRPLSLPSLHVFGDTDKVIPSQESVQLASQFPGAITLTHSGGHFIPAAAPQRQAYLKFLDQF
AE

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FIGURE 4656A

GCGGCGAGGGCGCGGGGGCTCTGAGGACCGCTCGGCGCGCCTCCTGCCACACCATGGGCAGCGCAGAGGACGCA
GTCAAAGAGAACTGCTGTGGAACGTGAAGAAGGAGGTGAAGCAAATCATGGAGGAGGCTGTACCAGGAAGTTT
GTGCATGAAGACAGCAGCCACATCATTGCTTTATGTGGTGCAGTGGAGGCTTGCCTCTTGTCATCAGCTGAGACGC
CGTGCCGCTGGCTTCTGCGCAGTGAACAAGATGGCAGCCCTGTTACCAAGGTGGGGAAGACGTGCCCAGTGGCG
GGGGAGATTTGCCACAAGGTACAGGAGCTGCAGCAACAAGCAGAGGGCAGGAAACCCTCAGGGGTGACCCAGGAG
GCCCTGCGGAGACAGGGCTCAGCCAGCGGGAAGGCCCGGCCCTCAGCCCTCAGGCCTTGAAACACGTATGGGTA
CGCACGGCGCTCATCGAGAAAGTTCTGGACAAGTCTGTGAATACCTGGCGGAAACTGCAGCAAGTACTACGAG
AAGGAGGCATGCTGGCAGACCTGTGTTGCGCCGATCCTGGCCTCTCTTCTAGTGGGACCCTGTGCCTTGGAA
TACACTAAGTCAAGACAGCCGATCACTACTGGACTGACCCCTCTGCTGATGAGCTGGTCCAGCGGCACCGCATC
CGGGGTCCACCTACTCGCCAGGACTCCCTTGCAAAGCGCCAGCCCTGGGGATCCGGAACCGGCACTCAAGCGGC
AGCGCGTCGGAGGACAGGCTGGCTGCCTGTGCCCCGAGTGTGTGGAGTCCCTGCACCAGAAGTACAGGACGCGG
CTGCTCTATGGAAGAACCACGTGCTGGTGCAGCGGAAGGAGGATATGGAGGCGGTCCCTGGCTACCTCTCCCTG
CACCAGTCTGCAGAGAGCCTGACTCTGAAGTGGACCCCCAACCAGCTCATGAATGGGACTCTGGGGGACTCCGAG
CTGGAAGAGAGCGTTTACTGGGACTATGCCCTCGTGGTGGCTTCAGCCAGGTCTGTGTCATCCACTGCCACCAG
CAAAAGAGCGGTGGCAGCCTTGTGCTGGTGGAGCCAGGATGGCATCCAGAGGCCGCCCTGCATTTCACACAGGGA
GGACACCTGTGTCTTTCTGTCTGTCTGGAGAATGGGCTGTGCTCCTCGGGGACAGCTAGAGCCCCCTGTG
ACCCAGCAAGGGAAGGGGAAAGTGTTCCTCAAGCTACGGAACGAAGCAGCATTGCTCCGTGGATATGGAGGAG
ATGGGCACGGGGCGGGCCACCGACTATGTGTTCCGGATCATCTACCCCGGCCACAGGCACGAGCACAACGCTGGT
GACATGATCGAGATGCAGGGCTTTGGGGCCAGCCTGCCAGCCTGGCACCTGGAGCCCTGTGTCAGTACAGGGCTCC
TCCTGCCTCTCTGCTCTCTCCAGCAGCTCCCCACATGCAACCCCCAGCCACTGTAGCTGCATCCCCGACCGGTTG
CCGCTCAGGCTACTGTGTGAGAGTATGAAGAGGCAGATCGTGTCCCGGGCCTTCTACGGCTGGCTGGCACACTGC
CGCCACCTGTCCACGGTGCAGGCCACCTGTGCGCCTGGTGCACCATAGCGTTATCCACCTGACCGGCCCCCG
GGGGCCTCCGCGGGCCTCACCAGGACGTGTGGAGCAAGTATCAGAAGGACAAAAGAACTACAAAGAGCTGGAG
CTGCTGCGGCAAGTTTACTACGGAGGCATAGAGCAGGATCCGCAAGGACGTCTGGCCCTTTCTGCTTGGCCAC
TACAAGTTCGGCATGAGCAAGAAGGAGATGGAGCAGGTGGACGCAAGTGGTGGCAGCAAGGTACCAGCAGGTGTTG
GCAGAGTGGAAAGCCTGCGAGGTGGTGGTGGAGCAGCGGGAGCGGGAGGCCACCCAGCCACACGCACCAAGTTC
TCCTCAGGCAGCAGCATCGACAGCCACGTGCAGCGCCTCATCCACCGAGACTCCACCATCAGCAACGATGTGTTT
ATCTCAGTGGATGATCTGGAACCCCCGAGCCCCAGGACCCTGAAGATTCCAGACCAAAACCTGAGCAGGAAGCA
GGACCCGGGACTCCGGGCACCGCGTGGTGGAGCAGCAGCATTCCGTGGAGTTCGACTCTCCAGACTCAGGACTG
CCCTCCTCTCGCAATTACTCGTGGCCTCGGGCATCCAGTCAAGCCTAGATGAGGGGAGAGCGTGGGCTTCGAA
GAGGAGGACGGCGGTGGGGAGGAAGGCTCCAGTGGGGCCCGGCCCTGCAGCTCACACTTTGAGGGAGCCCCAGGAT
CCCAGCCAGGAGAAGCCTCAGGCCGGAAGTGGAGGCCGAGAGGAGCTTGGCGCTGTGTGTGCGGCTGCCTAC
ACTATAGAATTACTGGACACTGTGGCCTTAAACCTGCACCGCATAGACAAGGATGTGCAGAGGTGTGACCGCAAC
TACTGGTACTTCACGCCCCCAACCTCGAGAGGCTCAGAGACGTATGTGCAGCTACGTGTGGGAGCACCTGGAC
GTGGGCTATGTGCAGGGCATGTGCGATCTGCTGGCGCCTCTCTGGTCAACCTCGACAATGATCAGCTGGCCTAC
AGCTGCTTCAGCCACCTCATGAAGAGGATGAGCCAGAAGTTCCTCAACGGGGGTGCCATGGACACCCACTTTGCC
AACATGCGCTCCCTCATCCAGATCCTGGACTCAGAGCTGTTTGGCTGATGCATCAGAATGGAGACTACACCCAC
TTCTACTTCTGTTATCGCTGGTTCCTGCTGGATTTAAGAGAGAAGTGTGTATGAGGATGTGTTTGTGTGTGG
GAGGTGATCTGGGCAGCCAGGCACATCTCATCGGAGCACTTTGTCCTGTTTCATCGCCCTCGCCCTGGTGGAGGCC
TACCGAGAGATCATCCGTGACAACAACATGGACTTCACTGACATCATCAAGTTTTCAATGAACGTGCTGAGCAT
CACGATGCCCAGGAGATCTGCGGATTGCCGGGACCTCGTCCACAAGGTGCAGATGCTCATAGAGAACAAGTGA
GCTGGGGCCAGGAGGCAGCAGCCGTGCAGAGCCTGGGCTCCGGCAGGGAGAGGTGCAGGGGAGTACCGCCAG
CCTCCCAGCCACCAACCGACCCACCTCTGTTCTTAACAAAGCGGTTGTGAGCCTGGATCCGACTCCCGGCAGT
GCTGACCTGCAGGGCAAGTCAAGGGCCAGGATGCCCTCGGATCAGGGCCGGATGGGAGGGGTGAGCCTCAGGG
AGCAGTGCCTTGGGGGACACACCTACTCTGCTCCCTCTCACACATCTGGGAGTAGCCCCACTGCCACCTGCAG
CCGACGCTGGACTGCTGCCCAGAGTGAACCTGGGGCCCCACAGGATTAACAGGGGCTATAGCGGCTGGGCC
TACTCAGTGGGGTGGCAGAGGGCGAGAGGCTCTGTGCTGTGTCCCTTCTGAGGGTCCCTTTGAGTCCAGTAT
ATTGTGCTGCACACAGCCAGCTGGAGCAACCAAAAGTGTCTGTGTTAGGCACACGTACGGGTGCGGGAGA

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FIGURE 4656B

CCCGGGCACGGGAGACCCGGGCCGCTTCAGGCCGCTCCCCGAGATTCTGGGGCAGTCGGAAGATGTGGGCCCT
GGGTGGGAGCAGCCCACTTCAGCAGCACTGCCACTGCCTTTGGCCACCTGAGGTGACCCCCAGGCCTCCCCGGCC
TTGTACAGTGTACCTCTGTGTATCTGTACAGCCTCGCTCCTGCCACCCACCCTTGCGTTCTGCATTAGGTACTT
CCCTGAAAACACGTGTAAGAAGTGATGCTTTTGCCAGTGGATGATCTGGAATGCGACCGGAGCAGCTTGCTCTGA
GGAATCCCAGGGTGACTCTGTCTGGGGAAGAATCCGGTCACAGCCTCCCCTCAGAGACAGGCCTCAGTTCGAGGGC
AGCCCATTATCTGTCTGCAGACATCTGCCATGTCCCTGAGACTGCGGGAGGCAGGGGATGCAATGGGTGTCCCCATC
TGTCCCTGGTGAGAAGCAAGGCTAGCTCTGCCCTCCACATGCTTCTCAGGATGCCAAGAGGCCTAGGAACCCAGA
AACCCCTTGAGGAGCTGTGTATGCGGGGGTGCCAGGAAGGGCATAGCTCCTGCCCCCAGGCCTAGGCATGCTG
CTTGCTCGGCCATCCCCACTTCCTCCTCTACCCCAACACATGCAGGCTAGGCCTTGCCCTGGAACATGGAGGCC
TGCCCGGGGCTGGGGCCTAGTCCAGCAGCCACCAAAGTCTGGCAGACTTTCTGCATTGAGAAACATGACAAAGG
GCCCCGAGCCCTTCTGCACCCAGCACAGCCTGCCCAGCCAGCCCTGCCCCGGGCACTGCACAGCCTGTCTGG
GGGCCAGACCACCCATTGTCCATCCTTGTTGTCCGTGAGTCCCTGGCCTCCACCAAGCACGTGTGGCCATTGTG
TGCTTGCCCTTAGTGACTCCGTGGTTTTGTGAGGAGCAGAGTGTGTATGATTTTGCCTCAGAACTATACTCTTC
TGTGTAACAGACCAATAAACACATTTGTCAAC

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FIGURE 4657

MGSAEDAVKEKLLWNVKEVKQIMEEAVTRKRVHEDSSHIIALCGAVEACLLHQLRRRAAGFLRSDKMAALFTKV
GKTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAPALSPQALKHVWVRTALIEKVLDKVVQYLAE
NCSKYYEKEALLADPVFGPILASLLVGPCALEYTKLKTADHYWTDPSADELVQRHRIRGPPTRQDSPAKRPALGI
RKRHSSGSASEDRLAACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQSAESLTLKWTPNQLMN
GTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPLHFPQGGHLLSFLSCLENGLLPRG
QLEPPLWTQQGKGKVFVKLRKRSSIRSVDMEEMGTGRATDYVFRIIYPGHRHEHNAGDMIEMQGFGPSLPAAHLE
PLCSQGSSCLSCSSSSSPHATPSHCSCIPDRLPLRLLCESMKRQIVSRAFYGWLACRHLSTVRTHLSALVHHSV
IPPDRPPGASAGLTKDVWSKYQKDKKNYKELELLRQVYGGIEHEIRKDVWPFLLGHYKFGMSKKEMEQQVDAVVA
ARYQQVLAEWKACEVVVRQREAREHPATRTKFSSGSSIDSHVQRLIHRDSTISNDVFI SVDDLEPPEPQDPEDSR
PKPEQEAGPGTPGTAVVEQQHSVEFDSPDGLPSSRNYSVASGIQSSLDEGQSVGFEEEDGGGEEGSSGPGPAAH
TLREPQDPSQEKPOAGELEAGEELAAVCAAAYTIELLDTVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCS
YVWEHLDVGYVQGMCDLLAPLLVTLNDQLAYSCFSHLMKRMSQNFPPNGGAMDTHTFANMRSLIQILDSELFELMH
QNGDYTHFYFCYRWFLLDKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYREIIRDNNMDFTDIIKF
FNERAEHHDAAQEILRIARDLVHKVQMLIENK

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FIGURE 4658

CGCCGCCCAGCTCCCAGCCGAGGCTTTCTCAACCGCGTCAATAAAAGGCCGCCCGACCCGCCCCGCGCCCCGC
AGCCCTGCCGGACACCCCGGGCTGCAGCTGAGCGGGCGCAGACGGGCCGAGGCGGGCGCCGGGCGCGCAGGGACC
GAGGGACCGAGTGCTCCCCATGAGCGCACGTGGGCCGGGCGGTCCGCAAGCCCGGCTGAGAGCGGCCATGGGGC
AGGCGGGCTGCAAGGGGCTCTGCCTGTGCTGTTTCGACTACAAGACCGAGAAGTATGTCATCGCCAAGAACAAGA
AGGTGGGCCTGCTGTACCGGCTGCTGCAGGCCTCCATCCTGGCGTACCTGGTCTATGGGTGTTCTTGATAAAGA
AGGGTTACCAAGACGTGCACACCTCCCTGCAGAGTGCTGTCTACCAAAGTCAAGGGCGTGGCCTTCACCAACA
CCTCGGATCTTGGGCAGCGGATCTGGGATGTGCCGACTACGTCAATTCAGCCAGAATGAAGGCATTCTTGATG
GCGCGTGCTCCAAGGACAGCGACTGCCACGCTGGGGAAGCGGTTACAGCTGGAACGGAGTGAAGACCGGCCGCT
GCCTGCGGAGAGAGAATTGGCCAGGGGCACCTGTGAGATCTTGCCTGGTGCCGTTGGAGACAAGCTCCAGGC
CGGAGGAGCCATTCTGAAGGAGGCCGAAGACTTCACCATTTTCATAAAGAACCACATCCGTTTCCCAAATTCA
ACTTCTCCAAAAGCAATGTGATGGACGTCAAGGACAGATCTTCTGAAATCATGCCACTTTGGCCCAAGAACC
ACTACTGCCCCATCTTCCGACTGGGCTCCGTGATCCGCTGGGCCGGGAGCGACTTCAGGATATAGCCCTGGAGG
GTGGCGTGATAGGAATTAATATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCCTCACTATT
CTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAATTTCAGATTTGCCAGATATTACC
GAGACGCAGCCGGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCA
AGGGTGCTTTCTTCTGCACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACG
AGGAAGTGAGGGGCCTAGAAGACAGTTCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGC
TCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGA
GCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCCTCTG
CTTACGTTTCAGGCCCTGTCTAAACCCAGCCGTCTAGCACCCAGTGATCCCATGCCTTTGGGAATCCCAGGATGC
TGCCCCAACGGGAAATTTGTACATTGGGTGCTATCAATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGA
CCTCCACGTCTGATGCTGGGGTCATCAGGACGGACCCATCATGGCTGTCTTTTGGCCCCACCCCTGCCGTCAGT
TCTTCCTTTCTCCGTGGCTGGCTTCCCGCACTAGGGAACGGGTTGTAAATGGGGAACATGACTTCCTTCCGGAGT
CCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTGTAGAGTTCTAGATTACCTCACTGGGAATAGCATTGTGCG
TGTCGGGAAAAGGGCTCCATTTGGTTCCAGCCCACTCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTC
TCCAGTGGATCCAAGTACTCTCTCTCTAAAGACACCACCTTCCTGCCAGCTGTTTGCCCTTAGGCCAGTACACA
GAATTAAGTGGGGGAGATGGCAGACGCTTCTGGGACCTGCCCAAGATATGTATTCTCTGACACTCTTATTGG
TCATAAAACAATAAATGGTGTCAATTC

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FIGURE 4659

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGAGAGGCACCGGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGATGTTCCTTTGGCCACATATATGTGAATCTATAAGAAAGGTGATACTGTAG
ACATCAAGGGAAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGGGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTCCCCAGCATGCTGTTGGCATGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATAAAGCACTCTAAGAGCCGAGATAGCTTCCTGGAACGCGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCACCAGCCTGCTCCACCCAGGGAAGCACACTTG
TGAGAACCAACGGGAAGGCGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTAAACA
AAAAAAAAATAAAGGATCTCTGGGCTAC

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FIGURE 4660

MRTQRRERGEAPDICS LGLLENMEMFLWPHICEIYKKGDTVDIKGMGTVQKGMPHKG YHGKTGRVYNVPQH AVGIV
V NKQVKGKILAKRINVR IEHIKHSKSRDSFLERV KENDQKKKEAKEKG TWVQLKHQPAPPREAHFVRTNGKAPEL
LEPIPYEFMA

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FIGURE 4661

GAAAGATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGGCCGGAGGCGTTCACTC
CAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGTTTGACGGGGCGTGGTTCTGG
GGGCGGACTCCAGAAACAACCACTGGGTCTACATCGCCAATCGAGTGACTGACAAGCTGACACCTATTACGACC
GCATTTTCTGCTGTCTGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTCACCTACCAGCTCGGTT
TCCACAGCATTGAAGTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTTACCGAT
ACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAAGAAGGAGGGCAGGTGTACTCAGTGC
CTATGGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTG
ATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCAGTGCCAATGCTCTCGCTTTGGCCATGG
AGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAGTCAGGGGTAGAGCGGCAAGTACTTT
TGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGAATCCTGGGATTCTAGTATGCAATAA
GAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTACAGAG

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FIGURE 4662

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRITTTGSYIANRVTDKLTPIHDRI
FCCRSGSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIAGWDPQEGGQVYSVPM
GGMMVRQSFAIGGSGSSYIYGYVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG
DQIPKFAVATLPPA

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FIGURE 4663

GGGGGAAGATGGCGGCAGCCGTTCTGAGTGGGCCCTCTGCGGGCTCCGCGGCTGGGGTTCTGGCGGGACCGGGG
GTCTCTCGGCAGTGAGCTCGGGCCCCGCGCTCCGCCCTGCTGCTGCTGGAGAGTGTTTCTGGTTTGCTGCAACCTC
GAACGGGGTCTGCCGTTGCTCCGGTGCAATCCCCCAAACCGCTCGGCCCCACATTTGCCCGGGCTCATGTGCCTAT
TGCGGCTGCATGGGTGCGGTGGGCGGGGCCAGAACCTTTAGCTCTTGGGGCATTGGTGAGTCTCAGTAATGCAC
GTCXIXXCAGTTCCATCAAAACTCGGTTTGAGGGCCTGTGTCTGCTGTCCCTGCTGGTAGGGGAGAGCCCCACAG
AGCTATTCCAGCAGCACTGTGTGTCTTGGCTTCGGAGCATTAGCAGGTGTTACAGACCAGGACCCGCCTGCCA
CAATGGAGCTGGCCGTGGCTGTCTTGGGGACCTCCTCCGATATGCAGCCAGCTGCCTGCACTGTTCCGGGACA
TCTCCATGAACCACCTCCCTGGCCTTCTCACCTCCCTGCTGGGCCTCAGGCCAGAGTGTGAGCAGTCAGCATTGG
AAGGAATGAAGGCTTGTATGACCTATTTCCCTCGGGCTTGTGGTTCTCTCAAAGGCAAGCTGGCCTCATTITTTTC
TGCTAGGGTGGATGCCCTTGGACCTCAGCTCCAACAGTTGGCCTGTGAGTGTTATTCCCGGCTGCCCTCTTTAG
GGGCTGGCTTTTCCCAAGGCCTGAAGCACACCGAGAGCTGGGAGCAGGAGCTACACAGTCTGCTGGCCTCACTGC
ACACCCTGCTGGGGGCCCTGTACGAGGGAGCAGAGACTGCTCCTGTGCAGAATGAAGGCCCTGGGGTGGAGATGC
TGCTGTCTCAGAAAGATGGTGATGCCATGTCTTCTCCAGCTTCGGCAGAGGTTTTTCGGGACTGGCCCCGTGCC
TAGGGCTCATGCTCAGCTCTGAGTTTGGAGCTCCCGTGTCCGTCCCTGTGCAGGAAATCCTGGATTTTCATCTGCC
GGACCTCAGCGTCAGTAGCAAGAATATTAGCTTGCATGGAGATGGTCCCTGCGGCTGCTGCTGCTGCCCTCTA
TCCACCTTGAGGCCTTGGACCTGCTGTCTGCACTCATCTCGCGTGTGGAAGCCGGCTCTTGCGCTTTGGGATCC
TGATCGGCCGCTGCTTCCCCAGGTCTCAATTCTGGAGCATCGGTAGAGATTCCCTCTCTCCAGGCCAGGAGA
GGCCTTACAGCACGGTTTCGGACCAAGGTGTATGCGATATTAGAGCTGTGGGTGCAGGTTTGTGGGGCCTCGGCGG
GAATGCTTCAGGGAGGAGCCTCTGGAGAGGCCCTGCTCACCCACCTGCTCAGCGACATCTCCCCGCCAGCTGATG
CCCTTAAGCTGCGTAGCCCCGCGGGGGAGCCCTGATGGGAGTTTGCAGACTGGGAAGCCTAGCGCCCCCAAGAAGC
TAAAGCTGGATGTGGGGGAAGCTATGGCCCCGCCAAGCCACCGGAAGGGGATAGCAATGCCAACAGCGACGTGT
GTGCGGCTGCACTCAGAGGCCTCAGCCGGACCATCTCATGTGTGGGCCTCTCATCAAGGAGGAGACTCACAGGA
GACTGCATGACCTGGTCTCTCCCCCTGGTCATGGGTGTACAGCAGGGTGAGGTCTTAGGCAGCTCCCCGTACACGA
GCTCCCGCTGCCGCCGTGAACCTCTACTGCCTGCTGCTGGCGCTGCTGCTGGCCCCGTCTCTCGCTGCCACCTC
CTCTTGCTGTGCCCTGCAAGCCTTCTCCCTCGGCCAGCGAGAAGATAGCCTTGAGGTCTCTCTTTCTGCTCAG
AAGCACTGGTGACCTGTGTGCTCTGACCCACCCCGGGTTCTCCCTGCAGCCCATGGGCCCCACCTGCCCA
CACCTGCTCCAGTTCCCCCTCCTGAGGCCCCATCGCCCTCAGGGCCCCACCGTTCCATCTCCGGGCCCCATGC
CCTCAGTGGGCTCCATGCCCTCAGCAGGCCCCATGCCCTCAGCAGGCCCCATGCCCTCAGCAGGCCCTGTGCCCT
CGGCACGCCCTGGACCTCCACCCACAGCCAACCACCTAGGCCTTTCTGTCCCAGGCCTAGTGTCTGTCCCTCCCC
GGCTTCTTCTGGCCCTGAGAACCACCGGGCAGGCTCAAATGAGGACCCCATCCTTGCCCTAGTGGGACTCCCC
CACCTACTATACCCCAAGATGAACTTTTGGGGGGAGAGTGCCAGACCAGCCTTTGTCCACTATGACAAGGAGG
AGGCATCTGATGTGGAGATCTCTTGAAAGTGACTCTGATGACAGCGTGGTGATCGTGCCCGAXGGGGCTTCCC
CCCCCTGCCACCCCAACCCTCAGGTGCCACACCACCCCTATAGCCCCCACTGGGCCACCAACAGCCTCCCC
TCTGTGCCAGCGAAGGAGGAGCCTGAAGAACTTCTGCAGCCCCAGGGCCTCTCCCGCCACCCCACTCCGCC
GCCGCTGTTCTGGTCTGTGACGCTCCCTCCACCCAGTTGGTCCCTGAAGGGACTCCTGGTGGGGGAGGACC
CCCAGCCCTGGAAGAGGATTGTACAGTTATTAATATCAACAGCAGTGATGAAGAGGAGGAGGAAGAGGAAGA
GGAAGAAGAAGAAGAGGAAGAAGAGGAAGAGGAGGAAGACTTTGAGGAAGAGGAAGAGGATGAAGAGGAATATT
TGAAGAGGAAGAAGAGGAGGAAGAAGAGTTTGAGGAAGAATTTGAGGAAGAAGAAGGTGAGTTAGAGGAAGA
AGAAGAGGAGGATGAGGAGGAGGAAGAAGAACTGGAAGAGGTGGAAGACCTGGAGTTTGGCACAGCAGGAGGGGA
GGTAGAAGAAGGTGCACCTCCACCCCAACCCTGCCTCCAGCTCTGCCTCCCCCTGAGTCTCCCCCAAAGGTGCA
GCCAGAACCAGAACCTGAACCCGGGCTGCTTTTGGAGTGAGGAGGCCAGGGACGGAGGAGGAGCGTGGGGCTGA
CACAGCTCCACCCCTGGCCCCCTGAAGCGCTCCCTCCAGGGAGAGGTGGAGAGGGAAGGGGAAAGCCCTGCGGC
AGGGCCCCCXTCXXXCCAGGAGCTGTTGAAGAAGAGCCCTCTGCTCCCCCAACCCTGTGGAAGAGGAGACT
GAGGATGGGAGTGACAAGGTGCAGCCCCCACCAGACACCTGCAGAAGAAGAGATGGAGACAGAGACAGAGGCC
GAAGCTCTCCAGGAAAAGGAGCAGGATGACACAGCTGCCATGCTGGCCGACTTCATCGATTGTCCCCCTGATGAT
GAGAAGCCACCACCTCCACAGAGCCTGACTCCTAGCCATCTTCTGCACCCCACTCTTTGTTTCCAATAAAGTTA
TGTCCTTAGATAGCG

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FIGURE 4664

MAAAVLSGPSAGSAAGVPGGTGGLSAVSSGPRLRLLLLESVSGLLQPRTGSAVAPVHPPNRSAPHLPGMLCLLRL
HGSVGGAQNLSALGALVSLSNARLSSIKTRFEGLCLLSLLVGESPTELFQQHCVSWLRSIQQVLQTQDPPATMEL
AVAVLRDLLRYAAQLPALFRDISMNLPGLLTSLGLRPECEQSALEGMKACMTYFPRACGSLKGKLASFFLSRV
DALSPQLQQLACECYSLPGLGAGFSQGLKHTEWEQELHSLLASLHTLLGALYEGAETAPVQNEGPGVEMLLSS
EDGDAHVLLQLRQRFSGLARCLGLMLSSSEFGAPVSVPVQEIILDFICRTLSVSSKNISLHGDGPLRLLLLPSIHLE
ALDLSALILACGSRLRLRFGILIGRLLPQVLNSWSIGRDSLSPGQERPYSTVTRTKVYAILELWVQVCGASAGMLQ
GGASGEALLTHLLSDISPPADALKLRSRPGSPDGSLLQTGKPSAPKKLKLVDGEAMAPPSHRKGDSNANSNDVCAAA
LRGLSRTILMCGPLIKEETHRRRLHDLVLPVLMGVQQGEVLGSSPYTSSRCRRELYCLLLALLLAPSPRCPPPLAC
ALQAFSLGQREDSLEVSSFCSEALVTCAALTHPRVPPLQPMGPTCPTPAPVPPPEAPSPFRAPPFHPPGPMPSVG
SMPSAGPMPSAGPMPSAGPVP SARPGPPTTANHLGLSVPGLVSVPPRLLPGPENHRAGSNEDPILAPSGTTPPTI
PPDETFGGRVPRPAFVHYDKEEASDVEISLESDDSVVIVPEGLPPLPPPPPSGATPPPIAPTGPPTASPPVPA
KEEPEELPAAPGPLPPPPPPPPVPGPVTLPPLVPEGTGGGGPPALEEDLTVININSSDEEEEEEEEEEEEE
EEEEEEEDFEEEEDEEEYFEEEEEEEEEEFEEFEEEEGELEEEEEEEDEEEEELEEVEDLEFGTAGGEVEEG
APPPPTLPPALPPPEPSPKQPEPEPEPGLLLEVEEPGTEEERGADTAPTLAPEALPSQGEVEREGESPAAGPPP
QELVEEPPSAPPTLLEETEDGSDKVQPPPETPAEEEMETETEAALQEKEQDDTAAMLADFIDCPPDDEKPPPP
TEPDS

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FIGURE 4665

ACAGCGAGCGGAGCCGCGGTCCGGACGGCAGCGGTGCCCCGAGCTCTCCGCCTCCCCCGCCCGCCAGCCGAGG
CAGCTCGAGCCCAGTCCGCGGCCCCAGCAGCAGCGCCGAGAGCAGCCCCAGTAGCAGCGCCATGGCCGGGTGGAA
CGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACGCGGCCATCGTGGGCTACAAGGACTCGCCCTC
CGTCTGGGCCGCCGTCCCCGGGAAAACGTTTCGTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGA
CCGGTCAAGTTTTTACGTGAATGGGCTGACACTTGGGGGCCAGAAATGTTCCGGTGATCCGGGACTCACTGCTGCA
GGATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCCCACCTTCAATGTCACTGTCACCAA
GACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGA
AATGGCCTCCACCTTCGGCGTTCCTCAGTACTGACCTCGTCTGTCCCTTCCCCTTCACCGCTCCCCACAGCTTTG
CACCCCTTTCCTCCCCATACACACACAAACCATTTTATTTTTTTGGGCCATTACCCCATACCCCTTATTGCTGCCA
AAACCACATGGGCTGGGGGCCAGGGCTGGATGGACAGACACCTCCCCCTACCCATATCCCTCCCGTGTGTGGTTG
GAAACTTTTGTTTTTTGGGGTTTTTTTTTCTGAATAAAAAAGATTCTACTAACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4666

MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTILGGQKCSVIR
DSSLQDGEFSMDLRKSTGGAPT FNVT VTKD KTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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FIGURE 4667A

GGGGGGTCGGTGTGGGGTAGAATGGCCGCTGCCGCCGTACCCGCGGGACCCCGGGAGCACAGACTCCCCCTCCC
CCCGGCCCTCAGGCCGGGGGTGACCTTGCCCCCTGGAGCCCTCACCATGAATACCAAGGACACCACCGAGGTTG
CTGAAAACAGCCACCACCTGAAGATCTTTCTCCCAAGAAGCTGCTGGAGTGTCTTCCTCGCTGCCCGCTGCTGC
CTCCAGAGAGGCTACGGTGAATACAAATGAGGAGATTGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGT
GGCTGTCTGTGCCCAAAGACAAGGCCTCAGAATGGCTCCATCATCCTCTACAATCGCAAGAAGGTGAAATATC
GGAAGGATGGTTACCTCTGGAAGAAGCGGAAGGATGGGAAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCC
AGGGCATGGAGTGTCTCTATGGCTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGCTGCTACTGGC
TGCTCCAGAACCCTGACATCGTCCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGGAAGGGCTGCA
GCCCCATCTTTGTTCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTGGGACAGC
TGAAGCCCATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGC
AGCAGATTTTGGACACCCACCAACCAAGCCTGTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGGCTTGGTT
CTGGGAGCCTTACCCACAAATGCAGCAGCACGAAACACCGCATCATCTCTCCAAAGTGGAGCCCCGAGCTTTAA
CCCTGACCTCTATCCCCCAGCTCACCCCCCAGAGCCTCCTCCACTGATAGCCCCACTTCCCCCAGAGCTCCCCA
AGGCACACACCTCCCCATCTTCTCCTCTTCTTCTCCTCCTCATCAGGTTTTGCAGAGCCCCTAGAAATCAGACCTA
GCCCTCCCACTTCTCGAGGGGGTCTTCAAGAGGAGGCACTGTATCCTCCTCCTGACAGGACTGGAGCAGCGGG
CTGGAGGCTTGACGCCCACCAGGCATTGGCTCCACAGGCTGATCCTAGGCCTTCCATGAGTTTGGCAGTGGTTG
TAGGCACTGAGCCTTCTGCCCCACCAGCTCCTCCAGTCTGCTTTGACCCCTGATCGTTTTCTCAACAGCCCCC
AGAGGGGCCAGACATATGGAGGGGGGAGGGAGTAAGCCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCT
GTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAGCCCCAGGCAGTCTCGGGGTCCCCACCACAGTCAGTAGCAG
GTGGGAGAAGAGGAAACTGCTTCTTCATCCAAGATGATGACAGTGGGGAGGAGCTCAAGGGTCACGGGGCTGCCC
CACCCATACCTTACCCCCCTCCTCACCCCCACCTCACCTGCCCCCTTGGAGCCGTCAAGCAGGGTAGGAAGAG
GAGAGGCCCTGTTTGGAGGACCTGTTGGGGCCAGTGAAGTGGAGCCCTTCAGTCTTTCATCATTCCAGACCTTA
TGGGAGAACTCATCAGTGACGAAGCTCCAAGCATCCCTGCTCCGACCCCCCAGCTGTCTCCTGCTCTTAGCACCA
TCACAGACTTCTCCCCAGAGTGGTCCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCTTGGACCGAAG
CCGCCGAGCATTACTCCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGTCCAGCCTGGTGTCTTACGCT
GCTACTGTCCCGCCCATGAGGTAGGGCTGGTGTCTTTGAGGTGGCAGGGCGGGAGGGGCCCTTTCTGCTTCTG
TGCTCTTTGAGTATCGAGCCCGCGATTCTGTCTCTGCTAGTACTCAACTTGACTGGCTGTCACTGGACGACA
ACCAGTTCGGATGTCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAGAGATCGCAGCAGCTGGGC
AGGTGCCTTGCCAGGGTCTGATGCTCCTCCAGTTCAGGATGAAGGCCAGGGGCCCTGGGTTTGAAGCACGGGTAG
TGGTCTTGGTAGAAAGCATGATCCCACGCTCCACCTGGAAGGGTCTGAACGTCTGCCCCATGGAAGCCCCCTTC
GGGGCATGAGCCTTCTGCACCTGGCTGCTGCCCAGGGCTATGCCCGCCTCATCGAGACCCTGAGCCAGTGGCGGA
GTGTGGAGACTGGAAGCTTGGACTTAGAGCAGGAGGTTGACCCGCTCAACGTGGATCATTCTCTTGACCCCCTC
TGATGTGGGCTTGTGCCCTGGGACACCTGGAAGCTGCTGTGCTCCTTTTCCGTGGAAACCGACAGGCACTGAGCA
TTCCCGACTCTCTGGGCCGTCTGCCATTGTCTGTGGCTCATTCCCGGGGTATGTGCGCCTTGCCCCGTGCCTTG
AGGAACTACAGACAGGAGCCTTCGGTGGAGCCCCATTGCCCCATCGCCACCCCTCCTCCAGCCCAGACACTG
GTCTGAGCAGCGTCTCCTCGCCCTCGGAGCTGTGCGATGGCACCTTTTCCGTACGTCAGCCTATTCTAGTGCCC
CAGATGGCAGTCCCCCCCCCTGCACCTCTGCCAGCCTCTGAGATGACTATGGAGGACATGGCCCCAGGCCAGCTTT
CCTCTGGTGTCCAGAAGCCCCCTACTCCTCATGGACTATGAGGCTACCAACTCCAAGGGGGCCCTCTCCTCCC
TTCTTGCCCTCCCAACAGCTTCAGATGATGGGGCTGCTCCAGAGGACGCTGACAGCCACAGGCTGTGGATGTGA
TCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGGAGCGGATTAAACGAGAGGACTTCG
TGGGGCTGCCGAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAGACCATGTCTGGC
TGGCCAGCTACCTGGAGAATGTGGACCATTTCCCAGCTCAACCCCTCCAGCGAACTGCCCTTTGAGCGAGGTC
GCCTGGCTGTCCCTTACGACCCCTCCTGGGCAGAGTTTCTCTCTGATCCACCAGTGGCAAGATGGAAGTGATT
TTGCCCTGTGACACTATCAGATCACGAGCAGCGGAACTGTATGAGGCTGCCCGAGTCATCCAGACGGCCTTCC
GAAAGTACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAGCAGCAGCTGTAATCCAGCGCTGTTACCGGAAGT
ACAAGCAGCTGACCTGGATTGCACTTAAGTTTGCACTCTATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGA
GCAAGTTCGAAGCTACTATGAACAGAAGCGATTTCAGCAGAGCCCGGAGCGGCTGTGCTCATCCAGCAGCACT
ACCGCTCCTACCGCCGAGGCCCGGCCCTCCCCACCGGACTTCGGCCACCCTGCCTGCCCGCAACAAAGGCTCCT

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FIGURE 4667B

TTCTCACCAAGAAGCAGGACCAGGCAGCCCGGAAGATCATGAGATTCTGCGGCGCTGCCGACACAGGATGAGGG
AACTGAAGCAGAACCAGGAGCTGGAAGGGCTTCCCCAGCCGGGACTGGCCACATGACCTGGCCACCGCCTTTCTC
ACCACCTGGGGGCGCCTCGTGCACTCTTAACAGGGAGAGGGCTTTCTGGGGCAGGGGGAGCCCCTGTCGGCAGC
TTTCCTGTTACCTTTGTGGAGCCCTCTGTAGGCCTCCTCCCTCCTCCCCACGCCTTGCTCCCACACCCCTCTC
CTCGTCCCTCCTGGTCGTGCCCCGTCTCTTTTGGTCCTGGCTCCAGAAAACCCGCGCCCCACATACCTGCATCTT
CCGCTGTGACCTCCGGAGCCCTGCCTGCCCCGTCTCCCCAGCTCCTCCTGCCTGCACCCGACTCGGCCCCCTCCT
GACTTGCCCTATTTATTTGTTCGACGCTCTCTGAATGTATCCGCCTCGGTTCCCACCACTGCCTTCGCTGCGCA
CGCCCCCTCGTGTTCAGGGCTGACCGTGTCCCCACCCGACTCCGCATGTTTGCGTCTGTTTCCTCCCTCTCTGGC
CCTGTCTTACCCCATCACCCGACTCTGGCCACTGACCTCAGGGCCGAAGGGGAGGTGGTGTACATAGGAACGCGT
TGCGGAGTCCGCCCCGTCCCCGAGGGGAGGGGTCTGTACATACTGTAACATACAGAGTATAGTGAAGAATCTA
TTTAAGGCGCCGCGGGGAGGGCTGCACGGCCGGGCTTGTGGTTCTCTAGCGCGCGGGGGCCTCCTGCCGGCTCC
ACGGGCACTTTCTACTTGTGCATGGGCTTGTTTATACGAATTGCCATTAAACATCGCTGCACC

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FIGURE 4668

MNTKDTTEVAENSHHLKIFLPKKLLECLPRCPLLPPERLRWNTNEEIASYLITFEKHDEWLSCAPKTRPQNGSII
LYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCELYGCVHSSIVPTFHRRCYWLLQNPDIVLVHYLNV
ALEDCGKGCSPIFCSISSDRREW LKWSREELLGQLKPMFHGIKWSCGNGTEEF SVEHLVQQILDTHPTKPA
RTH ACLCSGGLGSGSLTHKCSSTKHRIISP KVEPRALTLTSIPHAHPPEPPPLIAPLPPELPKAHTSP
SSSSSSSSSG FAEPLEIRPSPPTSRGSSSRGGTAILLLTGLEQRAGGLTPTRHLAPQADPRPSMSLAV
VVVGTEPSAPPAPPSPAF DPDRFLNSPQRGQTYGGGQGVSPDFPEAEAAHTPCSALPAAALEPQAA
ARGPPPQSVAGRRGNCFFIQDDDSG EELKGHGAAPPISPSPSPPPSPAPLEPSSRVGRGEALF
GGPVGASELEPFSLSFPDLMGELISDEAPSI
PAPT PQLSPALSTITDFSP EWSYPEGGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLR
CYCPAHEVGLVSLQVA GREGPLSASVLF EYRARRFLSLPSTQLDWLSLDDNQFRMSILERLEQME
KRMAEIAAAGQVPCQGPDAPFVQDEG QGPGFEARVVVLVESMIPRSTWKGP
ERLAHGSFPRGMSLLHLAAQGYARLIETLSQWRSVETGSLDLEQEVDP
LNVDHFSCTPLMWACALGHLEAAVLLFRWNRQALSIPDSLGRPLPSVAHSRGHVRLARCLEELQRQEP
SVEPPFALSPPSSSPDTGLSSVSPSELSDGTFSVTSAYSSAPDGSPPAPLPASEMTMEDMAPQ
LSSGVPEAPLLLMDEATNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIPVDMISLAKQI
EATPERIKREDFVGLPEAGASMRERTGAVGLSETMSWLASYLENVDHFPSTPPSEL
PFERGLAVPSAPSWAEFLSASTSGKMESDFALLTSLDHEQRELYE AARVIQTAFRKYKGRRLKE
QQEVAAAVIQRCYRKYQLTWIALKFALYKKMTQAAILIQSKFRSYEQKRFQQR
RAAVLIQQHYRSYRRRPGPPHRTSATLPARNKGSFLTQKQDQAARKIMRFLRRCRHRMRELKQ
NQELEGLPQGL AT

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FIGURE 4669

AGGACGTGGGCGTGCAGGACGCGGGCGTGCAGGACGCCAGAGCTGGGTTCAGAGCTCGAGCCAGCGGCGCCCCGAG
AGATTTCGGAGATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCTGAGGCTCGGGGGCGGAAGCTC
GCGGCTCACGGCGCTCCTGGGGCAGCCCCGGCCCCGGCCCTGCCCGGCGGCCCTATGCCGGGGGTGCCGCTCAGCT
GGCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAACCGGCCAAGGCGGAATCTAAGTC
CTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCGTGCTCAACGAAGA
GCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAA
TGACGCTCTGGAGATGGTGGAGGAGACCACTTGCCAGGGCCTCAAGGAGCTGGGGGCCTTTGGTCTGCAAGTGCC
CAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCCCGTTTGGTGGAGATCGTGGGCATGCATGACCT
TGGCGTGGGCATTACCCCTGGGGGGCCATCAGAGCATCGGTTTCAAAGGCATCCTGCTCTTTGGCACAAGGCCCA
GAAAGAAAAATACCTCCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGG
GTCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCCAGCCCTGTGGAAAACTATAACCTCAATGGAAGCAA
GCTTTGGATCAGTAATGGGGGCTTAGCAGACATCTTCACGGTCTTTGCCAAGACACCAAGTTACAGATCCAGCCAC
AGGAGCCGTGAAGGAGAAGATCACAGCTTTGTGGTGGAGAGGGGCTTCGGGGGCATTACCCATGGGCCCCCTGA
GAAGAAGATGGGCATCAAGGCTTCAAACACAGCAGAGGTGTCTTTGATGGAGTACGGGTGCCATCGGAGAAGCT
GCTGGGTGAGGTTGGGAGTGGCTTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGC
CCTGGCAGGTACCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAA
AATTCACAACCTTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTATGTAACAGTCCATGGC
TTACATGGTGAGTGCTAACATGGACCAGGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCTTTGG
CTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGTATGGGCTTCATGAAGGAACCTGG
AGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATGACATTCTTCGGCTGTTTGT
GGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCTCTAAAGAAATCCCTTTGGGAA
TGCTGGCCTCCTGCTAGGAGAGGCAGGCAAACAGCTGAGGCGGCGGGCAGGGCTGGGCAGCGGCTGAGTCTCAG
CGGACTTGTCCACCCGAGTTGAGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGT
GGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGTCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGC
CATCGACCTCTATGCCATGGTGGTGGTTCTCTCGAGGGCCTCAAGATCCCTGAGTGAGGGCCACCCACGGCCCA
GCATGAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCA
GTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGGTGGTGT
GGTCACCAGCAACCCACTTGGCTTCTGAATACTCCCGGCCAGGGCCTGTCCAGTTATGTGCCTTCCCTCAAGCC
AAAGCCGAAGCCCTTTCCCTAAGGCCCTGGTTTGTCCGAAGGGGCCTAGTGTTCACGACTGTGCCTGCTCT
CAAGAGCACTTACTGCCTCGCAAATAATAAAAATTTCTAGCCAG

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FIGURE 4670

MQAARMAASLGRQLLRLLGGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRKKPAKESKSFV
GMFKGQLTTDQVFPYPSVLNEEQTOFLKELVEPVSRFFEEVNDPAKNDALEMVEETTWQGLKELGAFGLQVPSEL
GGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFGKILLFGTKAQKEKYLPKLASGETVAAFCLTEPSSGSDA
ASIRTSAVPSPCGKYITLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGGGITHGPPEKKM
GIKASNTAEVFFDGVRVPSENVLGEVSGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHN
FGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAANKVTDECIQIMGGMGFMKEPGVER
VLRDLRIFRIFEGTNDILRLFVALQGCMDKGKELSGLSALKNPFGNAGLLGEAGQLRRRAGLGSGLSLSLGLV
HPELSRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLYAMVVLSRASRSLSEGHPTAQHEK
MLCDTWCIEAAARIREGMAALQSDPWQQLYRNFKSISKALVERGGVVTSNPLGF

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FIGURE 4671

GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCTCGGCGATTTCAGAGCGTCTGCAG
CGGCCCCGCGGGGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTCGGGGTGGTGAAGGAAGAAATTCAGAT
GACAACGCCCCGCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCCAGTCCATGAGGCTCGGGCAGAACTGGCGCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCCTCCCGCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTCCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGAGGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAAGTGTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGTGCTGGGTGTCCATTCCGCGGCTGTGACTGGCACCTTCCAGCCTATCCAGGTTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTGAGCGGCGG
GAGGCCCCGAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCTTGGCTCCTCTGCCTGGGGCCACCCCTGGCCCCCTGCTG
CCCCTTTTCTCCTACCACTACCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGCGAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTGACACGGAGTGAT
GGGGGGGCGAGGGCGCACGGGGAGGCCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCCCTAATCTCCGAGCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAAGTACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCTGGCCGTCATGTGCTTGTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTAGCTTTGTTTTTTATAAGCCTTTTGGGGGTAAATAGAGTTTCTTACATTTTGG
GGACTTTTTTAATAGGCATTTCTCTTTT

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FIGURE 4672

AAAAAAAAAAGAGGGAGGTGGCGGCAGCGGCTAGCGGACTCGAGTCTCAACCGGGCTGAGGCGGACACTTCTG
TGGAGCGAAGCAGTGGGAGCATCGAGCACTAGAGGCGGCACCGGGATCCCCGGCTCCGGGGAGGGGGGCGCCGGA
CCGGGAGGAGGGGAGGGGGCGATGCTGGAAGCCATGGCGGAGCCAGTCCCGAAGATCCACCTCCGACCCTTAAG
CCAGAGACTCAGCCACCAGAGAAACGGCGGAGAAACAATTGAGGATTTCAACAAATTCTGCAGTTTTGTTTTGGCA
TATGCTGGTTACATTCCCCCTAGCAAAGAGGAAAGTGAAGTGGCCAGCCTCTGGCTCCAGCTCTCCATTGCGAGGA
GAGAGTGGCGCCGACAGTGATGGCTGGGACTCGGCCCCCTCAGATCTTCGAACCATCCAGACTTTTGTAAAGAAA
GCAAAGTCATCCAAGAGAAGGGCAGCTCAAGCAGGTCCACCCAGCCAGGACCCCCAAGGTCCACTTCTCTCGT
CTGCAGGCCCCCGACAGTGCTACCTTGCTTGAGAAGATGAAGCTCAAGGACTCTCTCTTTGATCTGGATGGGCCC
AAAGTGGCATCTCCTTTGTCCCCACATCCCTGACACATACCTCCCGGCCCCCTGCTGCTCTTACCCCCGTGCCC
CTTTCCAGGGGGACCTCTCCCATCCTCCTCGAAAGAAGGACCAGAAAGAACCGAAAGTTGGGGCCAGGAGCTGGG
GCTGGCTTTGGGGTGTCTCGAGGCCTCGGCCAACTCCTGGGGATGGGGAAAAGAGATCTCGAATCAAGAAGAGC
AAGAAGCGGAAGTTAAAAAAGGCAGAACGGGGGGATAGACTCCCACCTCCTGGGCCCTCCCCAGGCACCCCCAGTG
ATACAGACTCTGAAGAGGAGGAGGAAGAGGAGGAAGAGGAAGAAGAAGAGATGGCAACAGTGGTAGGGGGTG
AAGCCCCAGTCCCTGTGCTGCCAACACCCCTGAGGCTCCTAGGCCCCCTGCCACAGTGCACCCTGAAGGAGTCC
CTCCTGCTGACAGTGAAAGCAAGGAGGTGGGCAGCACTGAAACAAGCCAAGATGGAGATGCCAGCTCCAGTGAAG
GCGAGATGCGGGTCATGGACGAGGACATCATGGTAGAATCAGGTGATGACTCATGGGATCTGATCACATGTTACT
GTCGAAAGCCCTTTGCAGGGCGGCCCATGATTGAGTGCAGCCTGTGTGGGACGTGGATCCACCTCTCCTGTGCTA
AGATTAAGAAGACCAACGTCCCCGACTTCTTTTATTGCCAGAAATGCAAGGAAGTGAAGCCAGATGCCCGGCGGT
TAGGGGGGCCCCCAAATCTGGAGAGCCCTGATGGCACCAACTTTAGCCTGGAAGTTCCAAATGACAAATGATT
TGGGAAGTGAAGCTCAGGGTCTCAGCCTATCCCTGGAGCTTGATACTGTCTGCACTTCAAGGCAGGAATTCT
CAAGGGAGACTTGTGTTGAAAATGAGTGTCTCACTTTCCACCCCTATCCTTCCTCCCACTCTGTGGACTTGAAAT
TGAATCCATTACGGTTGGGGATGGGAGGCTGTCTGTGTCCGACACATAATCTCTGTCTCTTGGACCTGCCACCA
TCACTTTCTGGGTCAGGATTGGAATTGGGATGGAATGGGACAGTTGTCTATAAACTCTAGTGTAATATTAGCA
CTCCCCTCCCTCATCTTTTCTTCTATTTCACTCCCCATTTATTTTCTTCTACACCGGTGTATTTTTAATTTTGG
ACTTCCCCTATTGGGCATGGCAGCTCAAAGGTGGAGTACTAGAGCCTGGCCAAGTGAGGAAGGAAAGCAGAAAGG
TGACGATTCTCACTCACCTCTTTGTTTTTAATAATATCGGCCGCTGTTTGTACAGACAGCCTGCGTGTGTAA
TAAAGCAGGGTGGGCTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4673

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCSFVLAYAGYIPPSKEESDWPASGSSSPLRGESAADSD
GWDSAPSDLRTIQTFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKMKLKDSLFDLDGPKVASPLS
PTSLTHTSRPPAALTPVPLSQGDLSHPPRKKDRKNRKLGPAGAGFGVLRPRPTPGDGEKRSRIKSKKRKLKK
AERGDRLPPPGPPQAPPVVIQTLKRRRKRRKRRKKRWQQW

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FIGURE 4674

GCTCCGCTGAATCCGCCCCGCGCTCGCCGCCGTCGTGCGCGCCCCCGTCCCGGCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAAGTCTCCTTTCTCCTTTCTTCCCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTGAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTCCTTTTACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

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FIGURE 4675

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTGCGAGTCGTTTCC
GCGATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCGGCGCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTTGATTTCCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCAGGAAAGTT
GCCGGGGAAAAATCACGGTCACCTTCAACATTAACAACAGCATCCCAACACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTCCGTGGTTGAAGTTATAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTATTATTATCATTTTTTCTGTACAAATCTATTATTTCTAGATTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCC

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FIGURE 4676

MLPLLRCVPRVLGSSVAGLRAAAPASPFRLQAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGGSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDAESEDFSIREVSFQSTGESEWKDTNYT
LNTDSLWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 4677

CCCGTTCCCTGGAGGCGCGCACAGACCCCTGGGAGGTGTACTTTCCGGGTGCAGACCGCGAATGGATCGCAGCGT
ATTCTGGGAAGTGTGTTTTATCGACCGGCCCCACGTGGAGACAGATTTAGGCATCCAAGCGAAATGCGTGAGGC
CAGCCCGACCTGCACTGAGGGAGGTAAGTCTTGAGGGAAAGTTCTGGATGCCTGGGTTTACCCAGATGGAGGTGT
CCAATAGGCAATTAGATACACAAGTCTCAGGCTCTCCCCAGGTGCTAGATTTCCAGCAGCACCACCATTATGTTG
ACTTCTCGTCCCGCCCCCTTGGGCTTCAGAAATAATGGTGATTGGCTTTCCCTTGGTGACGCCCCTGCTTGGTGG
GCTGGCCTCGCCTTCGCCCCCGACCTGGCAGGAGCCTCTCGAGCTTCCGGGCCGTCTGCTCGGTGATTGGCCGA
AACAGTGAGTGGACGGCCCGGATTGGCTGTGCTCAGCGGCGGGCTGAGCAACTGGAGTGAGGGGAGCAGTTGGG
CCAAGATGGCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAACACGTCGTGT
TCTTGGCGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTCGTCGTTGCCTT
CGTCGCCCGCCCGCAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCTGTGGGACGGAG
AAGACAGCTCCTTCTTAGTCGTTGCCTTCGGGGCCCCAGCGCGGGCGGCGAAGAGCCCGCCCTGTCCCAGTACC
AGATGGAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAATGGCGCCATCTCGGCTCACCAGCAACCTCCACCTTCC
AGTTTCAAGCGATTCTTCTGCCTCAGCCCCCCCCGCGAGTAGCTGGGATTACAGAGATTGCTTTGCATAAATCCA
CCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACAACATCATGTAGCACTTATAGGAATAAAAGGACTT
ATGGTATTAGAATTACCTAAAAGATGGGGGAAGA

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FIGURE 4678

GAGCAGTTGGGCCAAGATGCGCGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAA
CCACGTCGTGTTCTTTCGGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTC
GTCGTTGCCTTCGTCGCCGCCGCCGAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCT
GTGGGACGGAGAAGACAGCTCCTTCTTAGTCGTTCCGCTTCGGGGCCCCAGCGGCGGCGGCGAAGAGCCGCCCT
GTCCCAGTACCAGAGATTGCTTTGCATAAATCCACCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACA
ACATCATGTAGCACTTATAGGAATAAAAGGACTTATGGTATTAGAATTACCTAAAAGATGGGGGAAGAATTCTGA
ATTTGAAGGTGGAATAACAGTGAATTGTAGTACCCTCCAGTTGCGGAGAGATTTTACCAGTTCCACCTC
TCTGACTCTAAAGCATGCTGCATGGTATCCAAGTGAATCCTGGATCCCCACGTAGTGCTGTTAATCATCAGACAA
CGTAATCAGAATTTACTCACTACGTGAGCCGAGACACCCACTAACGTGATAATACTTTCAGAAGCCGAAGAGGA
AAGTCTAGTACTCAATAAAGGAAGGGCGTATACCGCATCTCTAGGAGAGACAGCAGTTGCATTGACTTTGGGCC
ATTGGCAGCAGTCCCAAAGACTCTATTTGGACAAAACGGCAAAGATGAAGTAGTGGCATACCCACTGTACATCTT
ATATGAAAATGGAGAGACTTTCTGACATACATCAGTCTGTTACACAGCCCTGGAAATATTGGAAAGCTGTTGGG
TCCATTGCCCATGCATCCTGCGGCTGAAGATAACTATGGTTATGATGCGTGTGCTGTACTCTGCTTACCCTGTGT
CCCCAATATCTTAGTGATCGCTACTGAATCAGGAATGCTGTATCACTGTGTGCTGCTAGAAAGGGAAGAAGAAGA
TGACCACACGTCAGAAAAGTCTGGGATTCCAGGATTGACCTCATTCTCTCTGTATGTGTTGAATGTGTTGA
GTTGGAGCTTGCTTTGAACTGGCATCTGGAGAGGATGACCCTTTTGATTCTGACTTTTCTTGTCAGTCAAAC
TCATAGAGATCCCAAGTGTCTTCAAGATATCACTGTACTCATGAAGCTGGTGTACATAGTGTGGGCTAAGT
GATTCTAAACTTCACAAATTTCTTGATCAGATGAAGAAGATAAGGATAGTTTACAGGAACCTCTACAGAAC
GAAATGCTTTGTTGAACACATCCTTTGTACGAAGCCATTGCCCTGCAGGCAGCCAGCTCCAATTCGAGGATTTG
GATTGTACCTGACATTCTGGGACCCACGATGATCTGCATCACCAGTACCTATGAATGCCTCATATGGCCGTTATT
AAGTACAGTCCATCCAGCGTCTCCTCCCTGCTTTGTACTCGAGAAGATGTTGAAGTGGCAGAGTCTCCCTCCG
TGTTCTGGCTGAAACCCAGATTCTTTGAAAAGCATATTAGAAGCATTTTGCAACGTAGTGTGCCAATCCAGC
ATTTTTGAAAGCTTCTGAAAAGGACATAGCCCTCCTCCTGAAGAATGCCTTCAGCTCCTCAGCAGAGCCACCCA
GGTGTTCAGAGAGCAGTACATTCTCAAACAGGACTTGGCAAAGGAGGAGATTGAGCGGAGGGTCAAATTATTATG
TGACCAAAAAAAGAAACAACTAGAAAGATCTCAGTTATTGTGCGAGAAGAGAGGAAAAGTCTGCGGGAAATGGCTGA
GCGTTTAGCTGACAAATATGAGGAAGCTAAAGAAAAACAAGAGGATATCATGAACAGGATGAAAAAATACTTCA
CAGTTTTCACTCTGAGCTCCCAGTTCTCTCTGATAGTGAGCGAGACATGAAGAAAAGATTACAGCTGATACCTGA
TCAACTTCGACATTTGGGCAATGCCATCAAACAGGTTACTATGAAAAAGGATTATCAACAGCAAAAGATGGAGAA
GGTGTGAGTCTTCAAACCCACCATTATTCTCAGTGCCTACCAGCGAAAGTGCATTGATCCATCCTGAAAGA
GGAGGGTGAACATATAAGGGAAATGGTGAAGCAAATCAATGATATCCGCAATCATGTAAACTCTGACACCACCA
GGAGCTGACTCACACCTGAACTGAACACCATTGAAGGCTTAAACCCATATTGTAAAACAGGTAGAATTATCTAAT
TTATAAAAAGGTGTTTTGATG

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FIGURE 4679

MAAEGPVGDELWQTLWLPNHVVFRLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGGLGELFLWDGED
SSFLVVRLRGPGSGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQHHVALIGIKGLMVLELPKRWGKNSEFEGGK
STVNCSTTPVAERFFTSSTSLTLKHAAWYPSEILDPHVLLTSDNVIRIYSLREPQTPTNVIIILSEAEESLVLN
KGRAYTASLGETAVAFDFGPLAAVPKTLFGQNGKDEVVAYPLYIYENGETFLTYISLLHSPGNIGKLLGLPLMH
PAAEDNYGYDACAVLCLPCVPNILVIATESGMLYHCVLEGEEDDHTSEKSWDSRIDLIPSLYVFECVELELAL
KLASGEDDPFDSDFSCPVKLHRDPKCPSRYHCTHEAGVHSVGLTWIHKLHKFLGSDEEDKDSLQELSTEQKCFVE
HILCTKPLPCRQPAPIRGFWIVPDILGPTMICITSTYECLIWPLLSTVHPASPPLLCTREDVEVAESPLRVLAET
PDSFEKHRSILQRSVANPAFLKASEKDIAPPPEECLQLLSRATQVFREQYILKQDLAKEEIQRRVKLLCDQKKK
QLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMKLLHSFHSSELPVLSDSERDMKKELQLIPDQLRHL
GNAIKQVTMKKDYQQQKMEKVLSPKPTIILSAYQRKCIQSILKEEGEHIREMVKQINDIRNHVNF

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FIGURE 4680A

GGTCAGCGGAGGGTTTGTCTCCGTCTCTTGGTGAACCTTGAACAGAGGCAGAGGCAAAGCAAACATTTCTGCGCC
AGGAGATGAGGGGCGGTAGAGCXCTGGXAATGGAGATGTCCTTGACGCCTGGGCAGAGGCTGCAGCTGCAGGAC
CCTGTGGCCACTGGAGATAAGTAATGGTGCCXATTTGAACACCTACTGGAAACGGGGCAGGAACAGTGAGTGACC
CCAGGCGAGCACAGGCAGGTGCCAGGAGCCAGGATGCAAGGATGACGCCTCCGAGGGCCCTGGCCTCACTCCCAC
CTGGGCGCTAGGAGCCATCCCGGGGCTCCAGCCAGGAGCCCTGCTGCCAGGGGCAXTGGCCAAACCTTTCTTCC
GACTCCAGAAGTTTCTCCGCCGAACACAGTTCCTGCTGTTXCTTCCTCAXCGGCTGCCTACCTGATGACCGGCAG
CCTGCTGCTGCTGCAGCGGGTCCGCGTXGGCTCTCCACAGGGCCCCGGGCACCCGGCCCCCTGCAGACCTTGC
CAGTGGCCCGCTGGGCGTGGGCGTGGGCTTGCTGGACAGCAGAGCCCTGCACGACCCTCGAGTCAGCCAGAGC
TGCTGCTGGGTGTGGACATGCTGCAGAGCCCCCTGACCCGGCXCCCGGCCCGCCCCGCTGGCTCCGGAGCCGC
AACTCGGAGCTGCGTCAGTTCGCTGCGGCTGGTTCCACCCTTCATGAGTACTCCCAGGGACCGCCCCGCTG
GGCCCCGAGGCTGCCAGGCCCCCATCCACAGCCGAGGCACCTACATTGGATGCTTCAGTGACGATGGCCACGAG
AGGACTCTGAAAGGAGCTGTGTTTTATGACTTGAGAAAGATGACTGTCTCCACTGCCAGGATGCGTGTGCTGAG
CGGTCTATGTCTACGCCGGCTTGGAGGCCGGGCGGAGTGTACTGCGGGAACCGGCTGCCAGCGGTGAGCGTG
GGGCTGGAAGAGTGTAACCATGAGTGCAAAGCGAGAAGGGCTCTGTGTGCGGGGCTGTGGACCGGCTCTCCGTG
TACCGTGTGGACGAGCTGCAGCCGGGCTCCAGGAAGCGGCGGACCGCCACCTACCGCGGATGCTTCCGACTGCCA
GAGAACATCACATGCCTTCCCCAGCTCCCTGATACAGGCCAATGTGACCGTGGGGACTTGCTCGGGCTTTTGT
TCCCAGAAAGAGTTCCCTTGGCCATTCTCAGGGGCTGGGAATGCTACTGTGCTTACCCTACCCCCGGTTCAAC
CTGCGGGATGCCATGGACAGCTCAGTATGTGGCCAGGACCCTGAGGCACAGAGGCTGGCAGAATACTGTGAGGTC
TACCAGACACCTGTGCAAGACACTCGTTGTACAGACAGGAGGTTCTGCTTAACAAATCCAAAGTGTGTGGCT
TTGTCAAGCTTCCCAGGAGCCGGGAACACATGGGCACGGCACCTCATTGAGCATGCCACTGGCTTCTATACAGGG
AGCTACTACTTTGATGGAACCTCTACAACAAAGGGTTCAAGGGCGAAAAGGACCACTGGCGGAGCCGACGCACC
ATCTGTGTCAAACCCACGAGAGTGGCAGGAGGGAGATTGAGATGTTTGATTACGCCATCCTGCTAATCCGGAAC
CCATACAGGTCCCTGGTGGCAGAATTCAACAGAAAATGTGCCGGGCACCTGGGATATGCAGCTGACCGCAACTGG
AAGAGCAAAGAGTGGCCGGACTTTGTCAACAGCTACGCCTCGTGGTGGTCTCGCACGTCCTGGACTGGCTCAAG
TACGGGAAGCGGCTGCTGGTGGTGCCTACGAGGAGCTGCGGCGCAGCCTGGTGGCCACGTTACGGGAGATGGTG
GCCTTCTCAACGTGTCTGTGAGCGAGGAGCGGCTGCTCTGCGTGGGAGAACAAAGGAGGGCAGCTTCCGGCGG
CGCGGCCCGGCTCCCACGACCTGAGCCCTTACCCCGGAGATGAAAGACTTGATCAATGGCTACATCCGGACG
GTGGACCAAGCCCTGCGTGACCACAACCTGGACGGGGCTGCCAGGGAGTATGTGCCAGATGATAGGCTGGCCC
ACGCCGCCGCCCCGCTGAGTGACGCAATCGCACACCGGGGCTGCGCTCCCCACTCTGATGCTCAGGCCCGTGGC
CTCACTGGGACGAACGGTGGGTGGGGGGCTCACCCCTGGTGTGCTGCCCGCACAAAGGAGACCTGGACACAACAGA
CACACATCACAAGGCGAACACAAATGGACACACATACCTGGCCACGAACCCACACCTCCTCAGACACTCAGACAC
CACTCCAGGCTCATAGCCCCGCTTGTATGCAGAGAAGCCACCCACGTGGGGTGTGCCAGGCACCCCCAGATACAA
ATGCAGCCACGCACAGACGTAACACACAGGTGCCAGGCCGTGTGCTCCTGGAGGCTGGCTGGCTGTCTCTCAC
ACAGATACAGTGCCTCCCTGGGATCCGGGAGGCCCTGGGCTTCTGTGTGTAGCCCTGGCATAGACTTGCTCG
TCAGGGTGTTCGACTCTGGGATGCTGGGCCGGGCAGACATTTATGCTCTGAGCAGCAAGGACCATTGGGATGGAG
GTGGGCACAAAGACTGCTGCTTCCAGGGTGTGCGGCCCTGGCCGTGTGTCTGACATCCCATAAATGTGTGTGTGG
TGTGACTACGGGCACCACAACCTCCGCAGCCTTGCTCTCTTTCTCTGTGGCTGGGCTGGCTGCACCATGGGCA
GGGTGAGGACTGCCCCCACCCTCCCAAGCCAATGCAGACACTGACCTCAAGACCAGCCACACCAAGTCTGTG
CACTGCCCCACACCCCTTCAACCCCTCTACACCATGCTCCGGGGCCTGGGGCTCCTTGCTGGCTTCTTCTCT
CCAGCTATCCTCAGGGAAGCTGGAGATTCAAGTCATGCCCCAGAAGCAAGGTGTAAGCATGGGGCGCTGGGGAAG
AGGGCAGGAGCTGAAGTTCCAGGGGAGCCAGGACCCCTGGGGACCTGTACACTAGCAGGATGGGTCTTGGGAGT
TGGCATGGGGAGATTGTAAGGGCTGTATCTCCGCGATTACTGGTACTGGTGTCTCCACCCATAGGGGCCCTGTCT
CTCTGGGGTCCCACACTGGGGTCATGAGAGCTAGTTAGTACTCAGCCTGACCCCTAGGTCTGGTCTGCCAGCCT
GGGATGGGGGTCAATGTATGCTACACATCTTGGGCTCACAAGTGAGGCTGTGGAGGCCAGGAGGTTCAAGTATGG
AGGGTAGGAGTGCAACCCAGGAGCAACGCTCAAGGTGGCCGAGATGCAGGGAGGATTGTGGCGATCCGGTGCAC
ACTGGCCTCTGTGGAGGTGAGGAGGTGGGAAGGTGGGTGGGCCCTGAACTCAGGCAGCCCTTCAGTGGCTTCTTC
AGGCCTAGGATAACCTGGCCAGGCCCCATGGTCTGCTCTGGGTGAGCTGTGAGGAGACCTCCCTCAGCCTG
AGCCAAGCTGCATTGGGAGGAGAAGGCAGGGTGGGATCTGGGAGAGCAGGACGTTGAGATATCCTGACCCCTCT

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FIGURE 4680B

GCTTCCTAGCCTGATGATGGGGAACCCAGAGCCACCCGCTATGAGCACAGGCCGGGGGTGGAAGGCCCAGTAGAG
CTGCCCTTCCCCAGATGGAAGCTTCCTCCAACCTTCAGTTTGGCCAGTGGGTGGGTTTGGGCATCTGTGCCCTG
GTGGCCTCCAAATCCTTCCTGGGATTCCCCCAAACCCACACTGATGCGAAGCTGTTCTTGACCCTCCCATAGCAT
CAACTCAGTTCAGCTCAAAGCTAGAAACACCAAGGTCTTTGAAAATGTTTATTGGCTCAGGATAGCTTCGGCATC
CAATCTGCGAAGGCCCTGATGGAGCTATTTCTCTAGTATCAGGAGCAATTGAGACCCCTCAGGAGTTTCCAC
ACTGCTGTGGACGGGATAGCCAGGGCAGACCTGCATCCAGAGCAAGCCTAGATCCTTGAAAGCAATGTCAGGCG
TGGCAGTGGGGAAGCCATGGAGGCTGGGAAGGGCAAAGTGTGGAGAGAGGAGTGACCGGGACTGGAGCCAGGGTC
TGGGGAGAGCAACAGCACCAGGCTTTTCTGGTAGTTGGATTGTTACATTCACTGCTGCCAGGTACCCAGAGATG
TCATCTCTCTCCAGGTAGAGCATCACCAGCTCCTGTGGCCTTGTAGATGACTCTGTACCTCAGTGAAGAGTGCAG
GCAAGTAGAGTGATGGGGTCAGTGTCCATCCAGTTTACGCTGAGTCAGTCCATACAGCAAGACACCTGGCACTTG
GCAGGTACTCCTGGATGTTGATGAGCAAGGAAGAGCAACGGCCCTGTCAGCTGGCAGTGGTCTCACAGCCTTCA
TCCCAGGTCTGCCTACGTGGGAGATCTCATCAGAAACAGGAACGGGGATCTGTCTGTGCTTGCAGGAAAGTCCAT
TTGTTTTTCTCCAAGTTAGGTCTCATCTACAGCTCTTAGCTTCTCAGTAAAGAGGATACTCTCCCAACCAGCCAA
GGAATAAAAGCTGATCTGTATGTAGGGCAGAAGTGTGGCAAATGCATCAGGAACCGGTTAGAACAGAACAGAGAA
ACCCTGACTGTCTACAGATTCCAACCTTAATAGCAAGCCTGTGGAGTTACACAAACCTGTGTTAAAACATGTAAT
TTTTATGGATTTCATCTCCCGTTGTGGATCAATTTGAAAAAACAAAATATGTAATTTAAAAAACTAAACACA
TCCTGGTAGTCCCAAGTGATGTGTAAATGAGAGAGAAGAATAGACAGGCTTCCAAACCTGGGAAGAAAGCTGCTT
AATTATGTGAACATCTTATAATGAAGTCTCTTGCAGCTAAAATTAGATTTTGAGTGATGAATCTGTGATAATGT
TTGCATATCAGAATGCATTCTCCCTTAAAAGTAGCAGTAGCCACTTGGTTCTTAGGGGGCCCCAAGAGGAGAGG
AGAAGTGCTGAGGTTGATGTTACGACTGCAAGAATTCTTGGGACACAGGTTTGTCTTCTGCTGACTTGCTCGGAA
ACCCATTGGAGGTATCTGAAATGTGATGACTCCAAAGGGGTTCAATTCATATAGGGAGAAATTGATTGCTCTGA
CTTCTTATTTATCACCCTCAATATTGGGTGAGTTGGTCTGAACAAGGTGGGGATAAAGTAGAGTGGAATAATG
TAGAGTCGTGACTGAAAGGCCAGGTTGTAGTCCAGCTCTTATCTGCCATCTTGGACAAAGCTTTTCCCATCT
CCAGTCTCAGTTTCCCATCCATAAAATGGGGGAAGTGGTAGGTTCTGCTGATTGCATCCACATTCATTCTCCAT
TTCTTTTCCAGCAACCCCCCATTTCTGTTTGGGAATTCATATGATCTGCCAGAGCCTCTCCAGGGGTGGAATAC
ATGTCCTGGACTAAGCCAATGACACCTTCCATCTTTCCAGCTATGGTGACTGGGTTAGGTATGATCTTGTGAGTT
AAGACAATGAAGCCAGAGGGAATTTCAAGACTTATGGGAATGCTGGGTAGAAGCTGTTTAAATCCCCTGTTGAA
TGTGAAAAAGGTAGTAGTATTCTGGGTCTTTATGATGACCACCTTGGGCCTTGGGATCATGACCAGGAATCACG
TGAAGCTGACACCACTGAAGGGAGAGTTGAGAGGCAGAAAGAGATCAAGTCCTTGGTGAAATTGTTTAAAGTACAG
GATCAAGCCTTGCTTGAGATTGGCCTTACCTCTGGACTTTTTTGTATATGAGCTAATAAATCTGTTTATTGT
TT

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FIGURE 4681

MAKPFRLQKFLRRTQFLFFLTAAYLMTGSLLLLQVRVALPQGPRAPGPLQTLFVAVALGVGLLDSRALHDP
RVSPDLLGVDMQLQSPLTRPRPGPRWLRSRNSLRQLRRRWFHHFMSDSQGPPALGPEAAPAIHSRGTYIGCFS
DDGHERTLKGAVFYDLRKMTVSHCQDACAERSYVYAGLEAGAECYCGNRLPAVSVGLEECNHECKGEKGSVCGAV
DRLSVYRVDELQPGSRKRRTATYRGCFRLPENITHAFPSSLIQANVTVGTCSGFCSQKEFPLAILRGWECYCAYP
TPRFNLRDAMDSSVCGQDPEAQRLEAYCEVYQTPVQDTRCTDRRFLPNKSKVFVALSSFPAGANTWARHLIEHAT
GFYTGSIYFDGTLYNKGFKGEKDHWSRRTICVKTHESGRREIEMFDSAILLIRNPYRSLVAEFNRKCAGHLGYA
ADRNWKSKEWPDFVNSYASWWSSHVLDWLKYGKRLLVVHYEELRRSLVPTLREMVAFLNVSVSEERLLCVENNKE
GSFRRRGRRSHDPEPFTPEMKDLINGYIRTVDQALRDHNWTGLPREYVPR

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FIGURE 4682

CTTAGTGGTGTCTGGGGTCTAGTGGACAGAGAAGACTCTTGGCCAGGCAGATGGCTTCTCGGTGGCAGAACATGGG
GACCTCCGTGCGCCGGAGATCTCTCCAGCACCAGGAGCAGCTGGAGGACAGCAAGGAGCTGCAGCCTGTGGTCAG
CCATCAGGAGACCTCTGTAGGGGCCCTGGGGTCCCTGTGCAGACAGTTCCAAAGGAGGCTGCCCCTGAGAACCGT
CAACCTCAACCTCCGCGCAGGGCCCTCCTGGAAACGCTGGAAACCCAGAGCCAGGTCAGCAGGGCCCTCCAGGC
TGCAGCTCGCTCAGCTAAGAGTGCTTTGGGTGCCGTGTCCAGAGAATCCAGGAGTCTGCCAAAGTGGCACCAA
GTGGCTGGTGGAGACCCAGGTGAAGGCCAGGAGGCGGAAGAGAGGAGCACAGAAGGGCAGTGGATCCCCAACTCA
CAGCCTGAGCCAGAAGAGCACCCGGCTGTCTGGAGCCGCCCTGCCCACTCAGCCGCAGACCCCTGGGAGAAGGA
GCATCACCGCTCTCTGTCCGGATGGGCTCACATGCCCACCCATTACGGCGATCAAGGCGGGAGGCTGCCTTCCG
GAGCCCCTACTCCTCAACAGAGCCCCTCTGCTCTCCAGCGAGTCTGACAGTGACCTAGAGCCTGTGGGGGCGGG
AATTCAGCATCTCCAGAAGCTGTCCCAAGAGCTAGATGAAGCCATTATGGCGGAAGAGAGTGGTGACATCGTCTC
TCTCATTTCATGACTGAGGAAGTGCCTGCAGGAAACAAGCCCTGTCTGACCGCCAAGGCTTCATACTCAAGGATGT
CTATGCTTCCCCGTGTGCTTCCCTGGAAAAAACCCCGGGAGTCGTCACTACCCCTGGGCCACTGCTAACAAGCAC
CTAACAAGGGGCCCAGAGCCCCCTGCTCCAGCCACATCTGGACCCATCAGTGACTGCCTGCCATAGCCTGAGAGT
GTCTTGGGGAGACCTTGAGAGGGGGAGAATTGTTCCCTCTGCTTTCCCTAGGGGACTCTTGAGCTTAGAACTCA
TCGTACACTTGACCTTGAGCCTTCTATTTGCCTCATCTATAACATGAAGTGCTAGCATCAGATATTTGAGAGCTC
TTAGCTCTGTACCCGGGTGCCTGGTTTTTGGGGAGTCATCCGCAGAGTCACTCACCCACTGTGTTTCTGGTGCCA
AGGCTCTTGAGGGCCCCACTCTCATCCCTCCTTTCCCTACCAGGGACTCGGAGGAAGGCATAGGAGATATTTCCA
GGCTTACGACCCCTGGGCTCACGGGTACCTATTTATATGCTCAGTGCAGAGCACTGTGGATGTGCCAGGAGGGGTA
GCCCTGTTCAAGAGCAATTTCTGCCCTTTGTAAATTATTTAAGAAACCTGCTTTGTCATTTATTAGAAAGAAAC
CAGCATGTGACTTTCCTAGATAACACTGCTTTCTCATAATAAAGACTATTTGCATTTG

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FIGURE 4683

MASRWQNMGTSVRRRSLQHQQLEDSEKELQPVVSHQETSVGALGSLCRQFQRRLP LRTVNLNLRAGPSWKRLETP
EPGQQGLQAAARSAKSALGAVSQRIQESCQSGTKWL VETQVKARRRKRG AQKSGSP THSLSQKSTRLSGAAPAH
SAADPWEKEHHRLSVRMGSHAHPLRRSRREAAFRSPYSSTEPLCSPSESDSDLEFPVGAGIQHLQKLSQELDEAIM
AEESGDIVSLIHD

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FIGURE 4684

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTTCTGCACGGGGGCACGGGCGAGCTCCCA
AACTTCAICACCGGATCCCGAGTGATCTTTTCAATTTCCGCACCATGAAATGTGATGAGGAGCGGACAGTCATTGAC
GACAGTCGGCAGGTGGGCCAGCCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTG
CTTACCTCCATGCGGGTGACGAGGTGGCCGAGTTCTGGTGCGACACCATCCACACGGGGGTCTACCCCATCTTA
TCCCGGAGCCTGAGGCAGATGGCCCAGGGCAAGGACCCACAGAGTGGCACGTGCACACGTGCGGGCTGGCCAAC
ATGTTTCGCTACACACGCTGGGCTACGAGGACCTGGACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTG
ATCGAGCTGCTGCAGGTTGATGCCCCGAGTGATTACCAGAGGGGAGACCTGGAACCTGAGCAATCATGAGAAGATG
AAGGCGGTGCCCCGTCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAG
TACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTG
GAGAAGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTG
GAGCACACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCTCACGCA
GAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAGCTGGAGCCGTCCATGCAGAAGGCG
GTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTGCGCTGCCGGAAC
ATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCACAGTCATCCACAGAGCCA
CCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCC
CCGTCCCCAGGGCACTCGCTGCAGCACTTGACCCCCTGAGGCCACAGCCACCCAGGCAGGGAGCAAGTGGCCTG
GTCACCTCTGGTTTCGATTGACCAGGATCGTGGTGTCACTTTTTAAAATTTAAAATTAATTTTTGAAATCAAAGTC
AGACACACCCATGGTAAAAAAAAAAAAAAAAACAATCCAAGGGTACAGAAGAGCTTATGAATAAAAGTAGTTTT
CTCCTCTACCCCTCTCATTCCTTCCGTGCCATGGTTTTAATTGACCCTGTTTTTAATTCTTCTGGTAGTTTTCTC
TATTTCCAAGTAATCTGTTTTAAATCAGTTTCTAGATTTTACCCCATGTCAATGACAAATGAGGATTTGATGCTCT
GATCCTTTCTCATGCCTGATACCCCTCCCTGTCTCCCCATTTTGGATAGTTACATTGGGGGTCTCTCGGTGAT
TTTTGTAACCTTACGCAGGACACTTAGAGCTCTCTAGAATCCCACTGACTTTAGTGGGTCTTGATGTAGGGTGGG
CAAGCCCCGACACTGGAGCTTAGCCTGAGAGGTTCTTG

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FIGURE 4685

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKDEERTVIDDSRQVGQPMHIIIGNMFKLEVWEIL
LTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQGKDPTEWHVHTCGLANMFAYHTLGYEDLDELQKEPQPLVFPV
IELLOVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRNLQTKKPWEVQWLKL
EKMINTLILNYCQCLLKKEEYVEVLEHTSDILRHHPGIVKAYYVRARAHAEVWNEAEAKADLQKVLELEPSMQKA
VRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTAPSAELSAGPPAEPATEPP
PSPGHSLQH

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FIGURE 4686

GGCCAGCGCGGCCGGXGCCCCCTXCGXCCTXCCCACCCAGGGCGCTGAGCACGCACGXCCGCCGGCCTGGTGTTT
CGGXCGGGGGCCCCGGGACCAGCCGCCGCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAA
GGGGCGGGAAXCGTCGGCGACGCCGAGGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTC
CTCCCGGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTCGGGGGGCGGGGCCGGGGTCCGAGCTCGG
GCCCXGCCCTCCGCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAA
CTAAGCCACCCAGACACCATCATCCCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCCTAAAGGX
TACGCCCCCTCGCCCCACCTCCCTACCCTGTACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGXCCCGG
GCAGGCGCCAGTGCCCGCCAGGTACCTGCCCCAGXCTCCCGGCTTCGCCCTCTTCCCCTCGCCTGGCCCCGTGG
CCTTGGGGTCTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCTTGGTGCAGATTGATC
AGATTTTGATTACACAGAAGGCTGAGCGAGTGGAATAATGGAAGTACAGGCTCCACCAGGCACCACCATTTGCCAC
GTGCTACAGACCTGGCATCCCTTCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTG
GTGGGGCCCTGTGACCTGTGGCTGTGGCACAGACACCAACTTTGAGGTGAAGACXTCGGGATGAATCCCGCAG
TGTGGGCCGCATCAGCAAGCAGTGGGGGGGCCTGGTCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACA
GTTCCCGCTGGACCXXXTGGAXTXGXXXTGXAGGGTGAAGGCTGTGCTGCTGGGAGCCACATTCTCATTGACTA
CATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCATCACCAGTTAGAGGCCACCATGGTGTGAGGAGAC
CATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCCCTCTCTGGGCAGCCCCCTTCTCTCCATGTACA
CTGCAGGGGACAGXAAGGGGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGXCCCCCTGTGGTTCCCAAGGAGG
GGTATGTATGAGAGCCGCTCTCCTGCTACCTXCCCACCACTGTCCCAGCAGTCCCTCGGCACACAGGCATATCAG
CTTTCACACTTTCCCCATGCACTCTCTCCACCCCTTCCAGGGCCTCTGCTCCAAAGGAGGCCTCTGGAACCCA
GGACTCTGGGGTTTTACAAGXAGGGCTGGGGTGTGGAAGGGCAAGCTGCACCAAAGACGGTGGATATAGCCACCG
CCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTACGCTCAGACCATGGCACTTTGAGGGGGTCTCTA
CCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAATTCTCTCCCAXCTAGGGCCCTGCCTTCAGCTGGTG
CTTGCTGCGATTCTGTGCCTTATGTAAGTGCCTTCTCTCCCTTGCCCTXAGGAAAAGGCTGCATCTTTATAT
GTTACATTATATAAACTTTGTAACTTTTTGACATTG

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FIGURE 4687

CTAGTTTCTAAGGATCATGCTCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCCGA
AGGCGTCATCGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGGCATCTACGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGGAGACTACATGGGCGCCTCCTGTACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGT
GCTTGAGGTGACCAAGAAGTTCATGAGGGACCCATTCTGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
TATCCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGGAAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
AGATTTCACTGTATCCGCCATGCATGGAGATATGGACCAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTT
TGGCTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACCTATATCCACAGAATCGGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAATGCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAAGAAGG

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FIGURE 4688

MSASQDSRSRDNGPDGMEPEGVIESNWNIEIVDSFDDMNLSESLLRGIYAYGF EKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVV MALGDYMGASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRKVDWLTEKMHARDFTVS
AMHGDMDQKERDVIMREFRSGSSRVLITD LLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGGFRGRKGVAINM
VTEEDKRTL RDIETFYNTSIEEMPLNVADLI

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FIGURE 4689

GAGCTAGCTTTGCAATATGCGCGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTCACTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACTTCCCATTAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCTGCTGGTGGTCTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCCGAATCTTCACTTCCATTACAGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAGTAGAGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACCTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCTCCATTCTCTGCACTTGCAGACTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCAAGCCAAAATT
TTGACATTTGAGTGCTTTCGTAAGCCCTGTACATGTACTATTAATTAGTCATTACAGCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACACTATCCTGGGCAAATGTTTACCCTGTCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGTGGGGTGGGGGAAGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCACTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 4690

MAAEADGPLKRLLPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAESAEGLS
LQSVMLELVALTGTMTVYSITNNFPSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVAVVGRLLQAATNYHNGYTGQLSAITVFLLFGGSLARIFTSIQETGDPLMAGTFVVSLLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 4691

TTAAGGAGGTGCAGTCTTATGGGAGGGACAGGGGCGGAGTCAGTCTTTAAAAGCTGTTCCCAGGTCTGGCCCGCC
TGCCACAAACGCTGAGCCCAGGTGGGAGAGGTCTGGCCTATCCGCGCCTGGCAGCTGTCGGAACTCCGGAGACCA
CAAAGGGGTTTATGGTTTACCCCTCCACGGAAGGTCGGTCTGATCGCAGCTGCGGGTCGGGGAGAGGGACCGGG
GGTCCCCCAGTCAGTAGGCCTCAGAACACCTCTTCAGTGCCGGGGACACAGACAGCGGATTTTGCATTGACTCT
CCCCAAAGTGTGCCGAACAGGTTGGAAGCAAAGGCTCCGGTTTAAAGCTCTGGGCTTGGGGATAAAATACACTTTT
TAAGGACCCAGTTTCTCGGCAACGACTCCAGACTGGGAAGACCTTTCATTTTCAGGATCGACGCTTCACGTTG
AGGGGAGGGCATTTCAGGACGCCCTCTTAAGGCTTCTCCCAACCCATGCGCTACCAGGCTCCTCACAGGACCAGG
CCTGGAGCCTGGAGCCTCCGGCTGCCACGGCTGCTGCCTCCTCATCTTCGGGACCCAGGAGCGGGAGGGCGCTG
GGAGCCCCGCGGCCCCCGGGACGCTGCCCCCTGGAGAAGGTGAAGCGGCCGATGAACGCGTTTCATGGTGTGGAGCT
CCGCTCAGCGCCGCCAGATGGCGCAGCAGAACCCCAAGATGCACAACTCCGAGATCTCCAAGCGCCTGGGCGCGC
AGTGGAAAGCTGCTGGACGAGGACGAGAAGCGGCCCTTCGTGGAGGAGGCCAAGCGGCTCCGCGCCCGACACCTGC
GCGACTACCCGACTACAAGTACCGGCCTCGGGCGCAAGGCCAAGAGCTCGGGCGCCGACCTTCCCGCTGCGGAC
AGGGAAGAGGCAACCTGGCCAGCGGCGGCCCGCTCTGGGGGCGGGGTACGCGACCACCCAACCGAGCAGAGGCT
TTGGGTACAGCCCCCAGCTACTCGACAGCCTACCTGCCTGGCAGCTATGGCTCTTCCCACTGCAAACCTGGAAG
CCCCCTCACCGTGCTCCCTCCCTCAGAGTGACCCTAGGCTCCAGGGGGAAGTCTGCCCACCTATACCCACTACC
TGCCCCCTGGCTCTCCCACTCCATACAACCTCCCTTGCTGGTGCCCCATGCCCTAACCCACCTCTAAACCTT
CATGGACGCAGACCTCACGGGACGGGCCTCATCCTCCTTTTTTAATCCAGCAGCATCCCTACCCAGGCTGTCA
ACCCTTTCTCCTGTTGGACTACAGTTCAGAGGCAGCCTGCAGTCCTCCCATGATAGCCAGGGAGAGCCGCACAAC
ATACAATTATATTTTTGGTAGTATTAAACAGTTTTGTATTATTC

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FIGURE 4692

MALPGSSQDQAWSLEPPAATAAASSSSGPQEREGAGSPAAPGTLPLEKVKRPMNAFMVWSSAQRRQMAQQNPKMH
NSEISKRLGAQWKLLDEDEKRPFVEEAKRLRARHLRDYPDYKYRPRRKAKSSGAGPSRCGQGRGNLASGGPLWGP
GYATTQPSRGFGYRPPSYSTAYLPGSYGSSHCKLEAPSPCSLPQSDPRLQGELLPTYTHYLPFGSPTPYNPPLAG
APMPLTHL

5084/6881
FIGURE 4693

ACTTGTTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTGATGGGATTGGGGTTTTCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAACTACTTCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCTCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCAGAATGC
CAGAGGCTGTCCCCGCGTGGCCCTGCACCAGCAGCTCCTACACGGCGGCCCTGCACCAGCCCCCTCCTGGC
CCCTGTTCATCTTCTGTCCCTTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCCTGGGCTTCTTGCATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCCGGCACC CGCTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGGCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACATACATGTGTAAAGTTTCT
GCATGGGCGGCATGAACCGGAGGCCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTTTGTGCCTGTCTGGGAGAGACCGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCCTGGATGGAGAATATTTACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACCTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGGAGCAGGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCTCCACTGACAGCCTCCCACCCCCATCTCTCCCTCCCTGCCATTTTGG
GTTTTGGGCTTTTGAACCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTGTGTTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAAGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATATCTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTTATCTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTCTTTTTTTTTTTTTTTTTTCTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTCCTCCCGGCTCGAGCAGTCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTCATGCCACCATGGCCAGCCAACCTTTTGCATGTTTGTAGAGATGGGGTCTCACAGTGTG
CCCAGGCTGGTCTCAAACCTCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCAGAGTGCTGGGATTACAATTG
TGAGCCACCAGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCAACCT
TCCCTCCTCTCCCTTTTTATATCCCATTTTTATATCGATCTCTTATTTTACAATAAACTTTGCTGCCA

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FIGURE 4694

AGTGCTTTCAAAGAATTGGCGTCCGCTGTTGCCTCTCCTCCCGGAGTCTTCTGCCTACTCCCAGAAGAGGAG
GGAAGCACAXGGXTXGGGTTTCTTTAGCTCTGCGTCGGATCCCTGAGAACTTCGXAXAGXCCATCCTGGCTGAGG
CTAATCTCCGCTGTGCTTCTCTGCAGTATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTC
AGACCAGGACCCAGCTCCAGCCCATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAAGTAT
GCCACCGCTCCCGAAAGGGGGGATCCGCCCCGTTGTCCCCAGATCCTGTGGCTGGCTCAGCTGTGTCCCAGGA
GCTACGGGAGGGGGACCCAGTTTCTCTCTCCACTCCCCTGGAAACAGAGTTTGGTTCCCCTAGTGAGTTGAGTCC
TCGAATCGAGGAGCAAGAAGTTTCTGAAAATACAAGCCTTCTGCAGAAGAAGCAAACGGGAGCCTTCTGAAGA
AGAAGCGAACGGGCCAGAGTTGGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGACGA
GGGAGACACCGCTTGGAACTACAGCTTCTCCAGCTGCCTCGATTCTCAGTGGTTCTTGGTCAGAGTTCAGCAC
CCAACCTGAGAACTTCTTGAAAGGCTGTAAGTGGGCTCCTGACGGTTCTGCATCTTGACCAATAGTGCTGATAA
CATCTTGCGAATTTATAACCTGCCCCCAGAGCTGTACCATGAGGGGGAGCAGGTGGAATATGCAGAAATGGTCCC
TGTCCTTCGAATGGTGGAAGGTGATACCATCTATGATTACTGCTGGTATTCTCTGATGTCTCAGCCAGCCAGA
CACCTCCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTATATCTGGGACGCATTCAGTGGAGAGCTCCGGGC
TTCCTTTCGCGCCTACAACCACCTGGATGAGCTGACGGCAGCCCATTCGCTCTGCTTCTCCCCGGATGGCTCCCA
GCTCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTTTCCACGGCCCGGCCTGGCCGAGACTGCGAGGTCCGAGC
CACATTTGCAAAAAGCAGGGCCAGAGCGGCATCATCTCCTGCATAGCCTTCAGCCAGCCAGCCCTCTATGC
CTGTGGCTCCTACGGCCGCTCCCTGGGTCTGTATGCCTGGGATGATGGCTCCCCTCTCGCCTTGCTGGGAGGGCA
CCAAGGGGGCATCACCCACCTCTGCTTTTCATCCCGATGGCAACCGCTTCTTCTCAGGAGCCCGCAAGGATGCTGA
GCTCCTGTGCTGGGATCTCCGGCAGTCTGGTTACCCACTGTGGTCCCTGGGTGAGAGGTGACCACCAATCAGCG
CATCTACTTCGATCTGGACCCGACCGGGCAGTTCCCTAGTGAGTGGCAGCACGAGCGGGGCTGTCTCTGTGTGGGA
CACGGACGGGCCTGGCAATGATGGGAAGCCGGAGCCCGTGTGAGTTTTCTGCCCCAGAAGGACTGCACCAATGG
CGTGAGCCTGCACCCTAGCCTGCCTCTCCTGGCCACTGCCTCCGGTCAGCGTGTGTTTCTGAGCCACAGAGAG
TGGGGACGAAGGAGAGGAGCTGGGCCTTCCCTTGCTCTCCACGCGCCACGTCCACCTTGAATGTGCGCTTCAGCT
CTGGTGGTGTGGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCAGGGAGGAACGGA
GGGAGGTGTGGGTGAGCTGATATAAAAAGGTTTTTATGAT

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FIGURE 4695

ACTTGTGTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCAGTCCATGGAGGAGCCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAACTACTTCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCAGAATGC
CAGAGGCTGCTCCCCCGTGGCCCCCTGCACCAGCAGCTCCTACACGGCGGGCCCCCTGCACCAGCCCCCTCTGGC
CCCTGTGTCATCTTCTGTCCCTTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCAATTCTG
GGACAGCCAAGTCTGTGACTTGACGTACTCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCTGCTGTGGGTTGATTCCACACCCCCGCCCCGACCCCGCTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGCCCCCTCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGGCCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACCTACATGTGTAACAGTTCT
GCATGGGCGGCATGAACCGGAGGCCATCCTACCATCATCACTGGAAGACTCCAGTGGAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTGTGTGCTGTCTTGGGAGAGACGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGTCTCTCTCCCC
AGCCAAAGAAGAAACCCTGGATGGAGAATATTTACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGAAGTCAAGGATGCCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAGGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCTCCCTGACAGCCTCCACCCCCATCTCTCCCTCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTGTGTTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAATTCAAGGCCCATATCTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCAATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGCCCCAGCCAAACCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCTTGAGGATTTTCACTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCCTCCCCGGCTCGAGCAGTCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTATGCCACCATGGCCAGCCAACCTTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTTG
CCCAGGCTGGTCTCAAACCTCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGAGTGCTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCCACCT
TCCCTCTCTCTCCCTTTTTATATCCCATTTTATATCGATCTCTATTTTACAATAAAACTTTGCTGCCA

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FIGURE 4696

GCCGCTGAGAAAGCGCAGAGAAGGCGGGCCCCGTCTGAGGTCTGGCAGTCAGAGACAGCCGGGCGCCACGGCCC
GAGCGCCACGGCAGCACCATGCCCCGACTCCTGGAGCGCCCCAAGCTTTCCAACGCCATGGCCAGGGCGCTGCA
CCGGCACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAAGAGGTGGATAAGATGATGGAACAGAAGAT
GAAGGAAGAACAGGAGAGAAGGAAGAAAAAGGAGATGGAAGAGAGAATGTCATTAGAGGAGACCAAGGAACAAAT
TCTGAAGTTGGAGGAGAAGCTTTTGGCTCTACAGGAAGAGAAGCACCAGCTTTTCCTGCAGCTCAAGAAAGTTTT
ACATGAGGAAGAAAAACGGAGGCGAAAGGAACAGAGTGACCTGACCACCCTAACATCAGCTGCATACCAGCAGAG
CCTGACTGTTTACACAGGAACTCATCTCCTCAGCATGCAGGGGAGCCCTGGAGGACACAATCGCCCAGGCACCCT
CATGGCAGCTGACAGAGCCAAACAAATGTTTGGACCCCAAGTGCTTACGACCCGGCACTACGTGGGCTCAGCAGC
TGCTTTTGCAGGGACACCAGAGCATGGACAATTCCAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCC
ACCTCACTATGGGCCCACACAGCCAGCTTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGGCATTCCCTGCAGT
GCAGTACCTATCTCAGCCACAGCCACAGCCCTATGCTGTGCATGGCCACTTTCAGCCCACTCAGACAGGTTTCCT
CCAGCCTGGTGGTGCCCTGTCTTGCAAAAGCAGATGGAACATGCTAACCAGCAGACTGGCTTCTCCGACTCATC
CTCTCTGCGCCCCATGCACCCCCAGGCTCTGCATCCAGCCCTGGACTCCTTGCTTCCCCCAGCTCCCTGTGCA
GATGCAGCCAGCAGGAAGTCGGGCTTTGCAGCTACCAGCCAACCTGGCCCTCGGCTCCCCCTTCATCCAACACAG
CCAGAACCCGCGATTCTACCACAAGTGACCATCAGATTATATCTTCAACACCACACCCCCACCCCATCGTGGGT
GAGGTATCCCTGTGTGTCCCAGGCCAATAAAATCTACCTGCCA

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FIGURE 4698

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAHVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRNDQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEAVAIK
AMAK

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FIGURE 4699

GGCCGGGAGAGTAGCAGTGCCTTGGACCCAGCTCTCCTCCCCCTTTCTCTCTAAGGATGCCCCAGAAGGAGAAC
TCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCTGCCCCAGCGAGTCCTCCGGAAA
GAGCCTGTACCCCCATCTGCACTTGTCTCATGAGCCGCTCCAATGTCCAGCCCACAGCTGCCCCCTGGCCAGAAG
GTGATGGAGAATAGCAGTGGGACACCCGACATCTTAACGCGGCACCTTACAATTGATGACTTTGAGATTGGGCGT
CCTCTGGGCAAAGGCAAGTTTGGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTATCGTGGCGCTCAAG
GTCCTCTTCAAGTCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCCAC
CTGCACCATCCCAACATCCTGCGTCTCTACAACATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTAT
GCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATG
GAGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTACAGAGACATAAAGCCAGAAAATCTG
CTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAG
ACAATGTGTGGCACCCTGGACTACCTGCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTG
TGGTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCACCCTTTGAGAGTGATCACACAACGAGACC
TATCGCCGCATCGTCAAGGTGGACCTAAAGTTCCCCGCTTCTGTGCCCACGGGAGCCCAGGACCTCATCTCCAAA
CTGCTCAGGCATAACCCCTCGGAACGGCTGCCCCAGGCTCAGCCCACCCTTGGGTCCGGGCCAACTCT
CGGAGGGTGCTGCCTCCCTCTGCCCTTCAATCTGTGCTGATGGTCCCTGTTCATTCACCTCGGGTGGTGTGTTT
GTATGTCTGTGTATGTATAGGGGAAAGAAGGGATCCCTAACTGTTCCCTTATCTGTTTTCTACCTCCTCCTTGT
TTAATAAAGGCTGAAGCTTTTGT

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FIGURE 4700

MAQKENSYPWPYGRQTAPSGLSTLPQRVLRKEPVTPSALVLMRSRNVQPTAAPGQKVMENSSGTPDILTRHFTID
DFEIGRPLGKGKFGNVYLAREKKSHFIVALKVLFSQIEKEGVEHQLRREIEIQAHLHHPNILRLYNYFYDRRI
YLILEYAPRGELYKELQKSCTFDEQRTATIMEELADALMYCHGKKVIHRDIKPENLLGLKGELKIADFGWSVHA
PSLRKTMCGTLDYLPPEMIEGRMHNEKVDLWCIGVLCYELLVGNPPFESASHNETYRRIVKVDLKFPASVPTGA
QDLISKLLRHNP SERLPLAQVSAHPWVRANSRRVLPPSALQSV

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FIGURE 4701

AGATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCTGGCATCCCTTCCTCCCCAAGT
TCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAG
ACACCAACTTTGAGGTGAAGACTCGGGATGAATCCCGCAGTGTGGGCCGCATCAGCAAGCAGTGGGGGGGCCTGG
TCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACAGTTCCCGCTGGACCTGGATGTGAGGGTGAAGGCTG
TGCTGCTGGGAGCCACATTCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCGTCA
CCAGTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCC
TCCTCTGGGCAGCCCCTTTCTCCATGTACACTGCAGGGGACAGAAGGGGGGCCCCATCCCTACCCTACTCCCTG
GCCGCTGCCCCGTGGTTCCCAAGGAGGGGTATGTATGAGAGCCGCTCTCTGCTACCTCCCACCACTGTCCCA
GCAGTCCCTCGGCACACAGGCATATCAGCTTTCACACTTCCCCATGCACTCTCTCCCACCCCTTCAGGGCCT
CTGCTCCAAAGGAGGCCTCTGGAACCCAGGACTCTGGGGTTTTACAAGAGGGCTGGGGTGTGGAAGGGCAAGCTG
CACCAAAGACGGTGGATATAGCCACCGCCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTCAGCCTCA
GACCATGGCACTTTGAGGGGGTCTCTACCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAACTTCCTCTCC
CACTAGGGCCCTGCCTTCAGCTGGTGTCTGCTGCGATTCTGTGCCTTATGTAAGTGCCTTCCTTCCTTGCCC
TAGGAAAAAGGCTGCATCTTTATATGTTACATTATATAAACTTTGTAACTTTTTG

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FIGURE 4702

MEVQAPP GTTIGHVLQTWHPFLPKFSIQDADRQTVLRVVGPCWTCGCGTDTNFEVKTRDESRSVGRISKQWGGLV
REALTDADDFGLQFPLDLVVRVKAVLLGATFLIDYMF FEKRGGAGPSAVTS

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FIGURE 4703

GCTCCGCTGAATCCGCCCCGCGCTCGCCGCCGTCGTCGCCGCCCCCGTCCCGGCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCGCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTCGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTACAGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACCTCTCCTTTCTCCTTTCTTCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCTAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCAACCAAGCTG

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FIGURE 4704

GAGACCATGCGGGGTAGCAGCACTGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCTCGGCGATTCAAGAGCGTCTGCAG
CGGCCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTCGGGGTGGTGAAGGAAGAAATTCAGAT
GACAACGCCCGCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGCTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCCAGTCCATGAGCCTCGGGCAGAAGTGGCGCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGGCCACAGGACTGGTGGCCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTTCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGAGGTGAATGACATG
AACTTTGAGAATGAGCAACGATGACGCTGTGCGGGTCTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGTGCTTGGGTGTCCATTCCGCGGCTCTGACTGGCACCTTCCAGCCTATCCAGGTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTGAGCGGCGG
GAGGCCCCGAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCTGGCTCCTCTGCCTGGGGCCACCCCTGGCCCCCTGCTG
CCCCTTTCTCTTACCAATACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGCAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTGACACGGAGTGAT
GGGGGGGCAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCCTAATCTCCGAGCCACCCAGGGTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCAATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCCACTGTGGGGCCAGGCTGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCTGGCCGTATGTGCTTGCTCTTACAGTGCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCCCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTATAAGCCTTTTTTGGGGGTAAATAGAGTTTCTTACATTTTG
GGACTTTTTTAATAGGCATTTCTCTTTT

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FIGURE 4705

MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGDFKSVLQRPAGAKYFFKSMDQDFGVVKEEISDDN
ARLPCFNGRVVS WLVS SDNPQPEMAPPVHEPRAELAPPAPLPPLPPERTSGIGDSRPPSFHPNVSSSHENLEPE
TETESVVS LRRERPRRRDSSEHGAGGHRTGGPSRLERHLAGYESSTLMTSELESTSLGDSDEEDTMSRFSSTE
QSSASRL LKRHRRRKQRPPRLERTSSFSSVTDSTMSLNIIITVLNMEKYNFLGISIVGQSNERGDGGIYIGSIM
KGGAVAADGRIEPGDMLLQVNDMNFENMSND DAVRVL RDIVHKPGPIVLT VAKCWDPSQAYFTLPRNEPIQPID
PAAWVSHSAALTGTFFPAYPGSSSMSTITSGSSLPDGCEGRGLSVHTDMASVTKAMAAPESGLEVRDRMWLKITIP
NAFLGSDVVDWLYHHVEGFPERREARKYASGLLKAGLIRHTVNKITFSEQCYVFGDLGGCESYLVNLSLNDND
GSSGASDQDTLAPLP GATPWFLLP TFSYQYPAPHPYSPQPPPYHELSSYTYGGGSASSQHSEGSRSSGSTRSDGG
AGRTGRPEERAPESKSGSGSESEPSSRGGSLRRGGEASGTS DGGPPPSRGSTGGAPNLRAHPGLHPYGGPPGMAL
PYNPMMVMMPPPPPPVPPAVQPPGAPPVRDLGSPPELTASRQSFHMAMGNPSEFFVDVM

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FIGURE 4706

GGGCCAGCGCGGCCCGGGCCGCCCTCGCCTCCCACCCAGGGCGCTGAGCACGCACGCCGCCGGCCTGGCGGCGTT
CGCGGGGCCCCGGGACCAGCCGCCGCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAAGGG
GCGGGAACGTCGCGGACGCCGAGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTCCTCCC
GGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTTCGGGGGGCGGGGCCGGGGTCCGAGCTCGGGCCCG
CCTCCGCCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAACTAAGC
CACCCAGACACCATCATCTCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCAAAGGCTACGCCC
CTTCGCCCCCACCTCCCTACCCTGTACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGCCCCGGGCAGGCGC
CAGTGCCCCGCCAGGTACCTGCCCCAGCTCCCGGCTTCGCCCTCTTCCCTCGCCTGGCCCCGTGGCCTTGGGGT
CTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCCTGGTGCAGATTGATCAGATTTTGA
TTCACCAGAAGGCTGAGCGAGTGGAACGTTCTTAGGCTGGGAGACCTGTAATCGGTATGAACTGCGCTCTGGGG
CCGGGCAGCCCCCTGGGTCAGGCGGCCGAGGAGAGCAACTGCTGCGCCCGTCTGTGCTGTGGCGCCCGCCGGCCGC
TGCGTGTCCGCCCTGGCCGACCCCGGGGACCGTGAGGTGCTGCGTTTGCTCCGCCCGCTGCACTGTGGCTGCAGCT
GCTGCCCCCTGTGGCTCCAGGAGATGGAAGTACAGGCTCCACCAGGCACCACCATTTGGCCACGTGCTACAGACCT
GGCATCCCTTCTCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCT
GGACCTGTGGCTGTGGCACAGACACCAAC

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FIGURE 4707

AGTTGGAATCGAAGCCTCTTAAAAATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCT
TCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGA
TGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGA
AATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAAAGGAATGACTTCCAGCTGATTG
GCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAG
ACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCCATGACAG
AGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAATAACTGGCTCCCAGGGTGGCGGTGGTGGCAGCAGTGATCC
TCTGAACCTGCAG

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FIGURE 4708

GGCCCCCCCCCCCCCTAGAAATGCTCGAACCAGGACGGCTCCTGGAGTCCTCGCGCCCTCGCAGAAGGACTACGG
GCCCCGCGACCCCCGGGGGCGGGGCTTCCGGCGCGCTGCCTTGTGGGCACGGTAGTTCCGCCGGGTCTGGCTTCC
GCCTGCCGAGCGGCCCGGACCGCAGGCCGGACTACACTTCCCGTCGGCCCGCCTGCTCTCCCGATGCCGCCTTG
GCGCGAGACGTTGGCAAGCAGAGTGTCTCCAAGATGGCCGCTTGGGGAAGGAGGCGTCTTGGCCCGGGCAGCAGT
GGCGGCAGCGCCCGAGAGAGGGGTGAGCTTGTGGCCACAGACTGCTACATTGTGCATGAGATCTACAATGGGGAG
AATGCCCAAGACCAGTTTGAGTACGAGCTGGAGCAGGCCCTGGAAGCCAGTACAAGTACATTGTGATTGAGCCC
ACTCGCATTGGCGACGAGACAGCCCGCTGGATCACCGTGGGCAACTGCCTGCACAAGACGGCCGTGCTGGCGGGC
ACCGCTGCCTCTTCACCCCGTTGGCGCTGCCCTTAGATTATCCCACTACATTCCCTGCCCGCTGGTGTGCTG
AGCCTGGCCTGCTGCACCTCTATGGGATCTCCTGGCAGTTTGACCCTTGCTGCAAGTACCAAGTGGAGTACGAC
GCCTATAAACTGTGCGCCTGCCTCTGCACACACTCACCTCTCCACCCCGTGGTGTGTTCCGGAAGGACGAC
CTGCACAGAAAGAGACTGCACAACACGATAGCACTGGCCGCCCTGGTGTACTGTGTAAAGAAGATTACGAACCTC
TATGCCGTATGATTTCAGTAGAACAGGGAGCGAAGCAAAACACCCGGCCCAAGAGACAACAGAGTATTCAGA
TCGCCCACTCTGTGAGGCAGCAGAGCCTGGGCAGGTGTTTGGCTTAGTATTTGTTATTTTAAAAAATAACAGA
TCACGGGTGTACCCAGGGTTTTTCAGCTCATTACACTAAGATGTGGATTTCCATAACCCAAGAGGGGGGTCTGAG
GCTGTGGAAGTCCGACTGGGCAGTGGAATGCTGATGGAGGCAGACGCTGCCGAGGGGGTGTGGACGTGCTTTGGG
GGAGGTCTTTAAGTCTATTGTTTAACTGTACCATCCAGAGCCACCAGAAGCTATTGATCATTAAATTATGAGA
ATTTCAACTCC

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FIGURE 4709

MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFYELEQALEAQYKYIVIEPTRIGDETARWI
TVGNCLHKTAVLAGTACLFPLALPLDYSHYISLPAGVLSLACCTLYGISWQFDPCKYQVEYDAYKLSRLPLHT
LTSSTPVVLVRKDDLHRKRLHNTIALAALVYCVKKIYELYAV

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FIGURE 4710A

AGGCCAAGTCCTGTATCTGCCATGTCTGTGGCGTCCACCTCAACAGGCTGCATTCCTGCCTCTACTGTGTCTTCT
TCGGCTGTTTCACAAAGAAGCATATTACGAGCATGCGAAGGCGAAGCGGCACAACCTGGCCATTGATCTGATGT
ACGGAGGCATCTACTGTTTTCTGTGCCAGGACTACATCTATGACAAAGACATGGAAATAATCGCCAAGGAGGAGC
AGCGAAAAGCTTGGAAAATGCAAGGCGTTGGAGAGAAGTTTTCAACTTGGGAACCAACCAACGGGAGCTTGAAC
TGCTGAAGCACAACCCGAAAAGGAGAAAGATCACCTCGAACTGCACCATAGGTCTGCGTGGGCTGATCAACCTTG
GGAACACATGCTTCATGAAGTGCATCGTGCAGGCCCTGACCCACACGCCACTTCTGCGGGACTTCTTCTGTCTG
ACAGGCACCGCTGTGAGATGCAGAGCCCCAGCTCCTGTCTGGTCTGTGAGATGTCTCACTGTTTCAGGAGTTTT
ACTCTGGACACCGGTCCCCCTCACATCCCGTATAAGTTGCTGCACCTGGTGTGGACCCACGCGAGGCACCTAGCAG
GCTACGAGCAGCAGGACGCCCACGAGTTCTCATCGCGGCCCTGGACGTGCTCCACCGACACTGCAAAGGTGATG
ACAATGGGAAGAAGGCCAACAACCCCAACCACTGCAACTGCATCATAGACCAGATCTTCACAGCGGCTTGCAGT
CAGACGTACCTGCCAAGTCTGCCATGGAGTCTCCACCACCATCGACCCCTTCTGGGACATCAGCTTGGATCTCC
CCGGCTCTTCCACCCCATTTCTGGCCCCCTGAGCCCAGGGAGCGAGGGCAACGTGGTAAACGGGGAAAGCCACGTGT
CGGGAACCAACACGCTACGGACTGCCTGCGACGATTACCCAGACCAGAGCACTTGGGCAGCAGCGCCAAGATCA
AGTGCAGCGGTTGCCATAGCTACCAGGAGTCCACAAAGCAGCTCACTATGAAGAACTGCCCATCGTAGCCTGTT
TTCATCTCAAACGATTTGAACACTCAGCCAAGCTGCGGCGGAAGATCACCACGTATGTGTCTTCCCCCTGGAGC
TGGACATGACCCCTTTTCATGGCCTCCAGCAAAGAGAGCAGGATGAATGGACAGTACCAGCAGCCACGGACAGTC
TCAACAATGACAACAAGTATTCCTGTTTGTCTGTTTAAACATCAAGGGACCTTGGAGAGTGGCCACTACACCA
GCTTTATCCGGCAGCACAAAGACCAGTGGTTCAAGTGTGACGATGCCATCATACCAAGGCCAGCATCAAGGACG
TCCTGGACAGCGAAGGGTACTTGTCTTATCACAACAGTTCCTGGAATACGAGTAGCCTTATCTGCAGCTGG
TCAGAAAAACAAAGGCAATGCATTGGCAAGCCTCACAAAGTGATCCTCCCTGGCCCCCCCCCTCCCCAAGTCTCC
CGCCGCTCCCCGGCCTGGTGACACCACCTCCCATGCAGATGTGGCCCCCTCTGCACCTGGGACCCATCGGGTCCG
GATGGACCACACGGACGGGGAGGCTCCTGGAGCTGCTTTGAAGATGGATGAGATGAGGGGTGTGCTCTGGGTGGG
AGGAGCAGCGTACACCCGTCACCAGAACATCTCTTGTGTCTGACATGGGGGTGCAACGGGGGCTCACAGCACA
GAGTGACCGCTGCCTGGCGTTCCCCAGCACTCGGTGTGGAAAGGCCCTACCTGCTGTAAGATTATGGGTCCATG
AAAGCAGTAAGCTGGACACAGAGGTGTAGTGTGCGGGACAGAGGGCCTTGACAGATGCCTTTCTGTTGGTGTTTA
GTGTTAAAATACGGAGAGTATGGAACCTTCACCTCCATTTTCTCAGCGGCTGTGAAGCAGCCTCCTAGCTTCGG
AAGTACGGACACTACGTCGCGTTTTCAAGCGTGTCTGTTCTGCAGGTAACAGCATCAAGCTGCACGTGGAAGCAT
CTCGCGGTTTTCTAGAAACAGGCATTTTCTTATCCCTCTCCCGCTCCTTTTTCCACAAAGGTGAATTCATAAAT
GTAATACTAGTAAAGTGAATGAATTACTGAGTTTATACAGAAATTTAGGTAACCTTCTCCTTTAGTCTCAAGAGCG
AGTCTTGCTTTTTAATGGGTGCCGTTTTATGTTGCTGCCCCGCCCTGTGTGCCTGGCTCCTCTGGGTGCCTTGGTGT
CTGCTGGTGGCTGGCAGTGGGCGCAGCGGAGGAGTGTGCTGCAGCTCATACGGTGTGCTGTCTCATCTCAGTC
TGGAGTAAATGCAGTGTCTGCCGTTGTCTGATGGGTTCTGTCCCTCGTATTTTCTTTGCCTCTATCCCATTGCC
TGGCTACCGCTGCCTGGCAGCCAAGGGTGTGGTCCGGAAGCTGGAGTGGCTCTGGTGGAGCCTGCATCTTGTCTC
TCGTCTGCCTCTGCTTTACATTTGGTGTACTTTGGGCGTGGTGGCAGTAAATGACACCGTGATTGAGCTTGTCTC
AGCAGAGCTGAAAGAGAAAGTAGAAGGATGTGCATTGTTTCTTGTAAAGATATCTTGATGTATCTGTGTATTCAA
ATTCAAACAGAGATGGTTTGTCCATTTGTCCACTGAGAAATTAGAACTAGGGACAAGGGGGAGGAAAGTACTG
AAATACAGTTTATGAAGCAAGTGTGTCTCGGGCTGTGCTTGTCCCAGGAGCCCCAGCAGCATCTGAACTGAGGCT
TCTTCAGTCTCTGCAGGAACAGGATCATCTGTCTCAGCGGTGGGCAGATGTTTTCATAGACAGCCAGGGAGTAAAC
ACTGTTGGCTCTGTGGGCTGTATGGTCTCTGCCATAAATAGTACAGAGATGTGGCTGTGTCTAGTACAACTTTTA
GACACAGAAATCTGAATGACATATATTGTTCTGTGTCAAGAACTTAGATTTTTTTTTTAAGTATTTAAACACGT
GAAACCTATTCTTAGCTCACAGGCCATGGAGAAGCTGGTGGGGACAGACCCAGCTCCTTAGCTGGCTGGGCTGG
GGAGGGGGTAGTGACAGTGGCAGCTGCTACTCACTGCTCAGTGTGGAAACACAGGACTTGGCAATCACAGCCCG
CAGAACCATCATGTGTGGCAGAAGCTGAGGGATGCGGTTTCTTGGCCACGTGCTCTGTTCTTTCTGTTGTTT
TTCTGCACTTAAAGAATTACATGGAAGCATGTTTTATAAAATGAATTACCAGAGAAACAGAGATGGGCCGAGAT
TTTCAGAAATGGTCCCATGTGACCAAGTCTGCTGTTTGGGTGACAGTGTCTTGAAGATCTCCTTTGAGGATGTG
CAGTCTTTTTTTTTTTTTTTTGGAGATGGAGTTTGTGCCCAGGCTGGAGTGAGTGGCACAGTCTCGGCTCACTG
CAACCTCCACCTCCTGGGTTCAAGCAGTCTCTGTCGCCGAGCCTCCCAAGTAGCTGGGACTACAGGCATGCACCA
CCACGCCAGGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTACCATGTCTCAAACCTCTGACCTCAGGCGAT

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FIGURE 4710B

CCACCCACCTCAGCGTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACCGCACCTGGCCTATGAGTGGTCTTTTA
ATTAGGAACAAATCTAATGGAAAGGAGAGTTGACTGAAGTTGGCCACAGGATTGTGAGCTGGGCAGTGCCTTCA
TGAAGGCTTGCCACCTTGGGACGCCCCAGTTTACTGGGGTGTCTTGCGGAGTGCAGAAGGCTTCTGGCAGCTGC
CTGGGTTTGGCCAGACCTGCCTCCCCTCCCGCCGGCCAAACCCCTAGTCCCCTTCCTGTCTCCACTTGCATTGAG
GGGTGGCTGCTGTTCTGAGAACATTAGAAGTGGGAAGAGAGATGGAGTCACATGGATTTTTGGTGGGCATTATTC
TAACTTTTCGTATCCAAGTTAGTCCCCCTTATTCCACTGTGGCATTGCCGTTCTAAGCAGTTACCTGATGCCTGC
TGCTGAAGAGCTGCTCACAGGAGGCGGCGGCGGCCCTGGCACTGCCCCCTGCATTAGGTCTTGTTTGTATGTGT
TCTTGTAATTTACTTTGTGAGAACAAAATATTTACGCGTTGGGTTTCAGGAATTTCTTTTAGCTCCCCATCTGGC
TGTGAAATTCAGGAAACCTCCCGTTGCCTAGTAATCACCCCATGTAGGTGTACATTGTGACAAAGTGCATCTGAC
CACTAAGGGGCCCCCTTGGTGACCCAGCACATTACAGCAGTGTTAAATGGCCTGCATTTTGGAGATGCTGGC
TGGCCTTTCAGTGCCTCCCAGGAAGACACATGGCCTTTCCTCTTCAGATGCCTGAAGGGAGTGCTTTGAGGCAG
GTGATGTGCTGGGAGTGTGGGCGGCCCTCCCTCTGGCCCCGGGGCCCTCTGTGGACCTTGGCTCCCTCCGTGGACC
TGGGCTTCGTGGTGAGCACTGCAGCCTCCCTGGGCATTCCCTCCAGCGCCAGCACCACTGCAACATATAGACCTG
AGTGCTATTGTATTTTGGCTTGGTGTGTATGCTCTTCATTGTGTAAATTTGCTGTTCTTTTGACAATTTAAGTGA
TTGTTTTGTTTACTGTAAGTTTGAAAATAAAAATGAAGAAAAAATTCCAATGACTGTGCTGTGGTTGGAGACTT
TATTTACCAAGATGTTTACTCTTCCCTTCCCCCTTCATTTGAGGAGCTGTGTCACTCCTCCTCCCCCCCAGTGC
TTTGTAGTCTCTCCTATGTCATAATAAGCTACATTTTCTCTG

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FIGURE 4711

MVSRPEPEGEAMD AELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHLNRLHS
CLYCVFFGCF TKKHIHEHAKAKRHNLAIDL MYGGIYCFLCQDYIYDKDMEIIAKEEQRKAWKMQGVGEKFSTWEP
TKRELELLKHNP KRRKITSNCTIGLRGLINLGNTCFMNCIVQALHTPLLRDFFLSDRHRCMQSPSSCLVCEMS
SLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKGDDNGKKANNPNHCNCIIDQI
FTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVVGESHVSGTTTLTDCLRRFTRPEHL
GSSAKIKCSGCHSYQESTKQLTMKKLP IVACFHLKRF EHS AKLRRKITTYVSFPLELDMTFFMASSKESRMNGQY
QQPTDSLNNDNKYS LFAVVNHQGTLES GHYTSFIRQHKDQWFKCDDAIITKASIKDVL DSEGYLLFYHKQFLEYE

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FIGURE 4712A

GTGGTGTCTGGTGTCTGGCAGCATCCCCGGCGCCCTGCTGCGGTGCGCCGCGAGCCTCGGCCTCTGTCTCCTCCCTT
CCAGCCCTCACCTCCACGCGGGACCGCTCGCGCCAGTCAACTCCGCGCACGTTGCCCTGCTTGGCAGCCAATAA
AAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCGAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTC
CACGCACCGCGGGCTAGCGCCGACACCCAGCTAGCGTGCAAGGCGCGCGGCTCAGCGCGCACCGGCGGGCTTCGA
AATCGAGTCTCTCCGGCGACCCCGAACTCCGCCCGGAGCCTCAGCCCTGGAAAGTGATCTGGCATCCGAGAG
CCAAGATGCCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACCATTACAGCGC
CTCCTTCCAGGGTCCCGCAGAATGGAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAAGAAGACATTCGCC
CTGATATAAAAGATGATATATATAACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCT
GGAGAAACATCATCCTTATGTCTCTGTCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCTTACCTGCAACT
TATACACCTGGCTTTGGGGGGTATTCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGT
GGAGCCACTGATCTTACAAAGCTCGGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGA
ATGATGTCTATGAATGGGCTCGCGACCACCGTGCCACCACAAGTTTTAGAAACACATGTGATCCTCATAATT
CCTGACGTGGCTTTTTCTTCTCTCACGTGGGTTGGCTGCTTGTGCGCAACACCCAACTGTCAAAGAGAAGGGCA
GTACGCTAGACTTGTCTGACCTAGAAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGC
TGTGTGATGTGCTTCACTCTGCCACGCTTGTGCCCTGGTGTCTTGGGGTGAAACTTTTCAAACAGCGTGTTCG
TTGCCACTTTCTTGGCATATGCTGTGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCACCTCTTCAGAT
ATCGTCCTTATGACAAGAACATTAGCCTCCGGGAGAATATCCTGGTTTACCTGGAGCTGTGGGTGAGGGCTTTC
ACAACTACCACCACTCCTTTCCCTATGACTACTCTGCCAGTGAGTACCCTGGCACATCACTTCACCACATTCT
TCATTGATTGCATGGCCGCCTTCGGTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCATCTTGGCCAGGA
TTAAAGAACCAGGAGAGGGAACTACAAGAGTGGCTGAGTTGGGGTCCCTCAGGTTCTTCTTCAAAGCCAGC
CAGGCAGAGGTTTTAATGTCTGTTTATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATAACC
CATTCCAGTACAGTATTCTTTTAAATTTCGAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAACTGA
CATTATTTCTTCTCTTATCCTCTCTCTCTTCTAGGCCATTGTCTCCTTTTCACTTTGTTGCTATCATCTCCT
TTCTCTTATTGCCACCCAGGCAAGCAGCTGGTCAGTCTTGTTCAGTGTCAGCTTCCAAGCCCTAGACAACCTT
TCTGTAGCCTAAACGAATGGTCTCTGCTCCAGATAACTCTCTTCTTCTTGAGCTGTTGTGAGCTTTGAAGTAGGT
GGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCTGTTAATTATCTTCAGCCCAGGCTTTTGCTAGA
TGGAATGGAAGCAACTTCATTGACACAAAGCTTCTAAAGCAGGTAAATTGTTGGGGGAGAGAGTTAGCATGT
ATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTTGCCATGATCAGACATGCAGCTGCCTACCTAGTG
AGGACTTCAAGCCCCACCACATAGCATGCTTCTTCTCTCTGGCTTGGGGTAAGAAGTGCTGTGGTGTGTTGG
CAATGCTAATTCAATGCCGCAACATATAGTTTAGGCCAAGGATAAAGAAGAGACACTTTAAGTTTGTAGTAAAG
TGGTCTCTGCTGGGGAAGGGTTTTCTTTCTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTATGTATCAAG
AATCTTGAAGTTGGGTGTTTCCATAATTGGTAAACAGCAGCTCACAGAATTTGAGTATTCCATGAGCTGCT
CATCACAGTTCTTCTCTTCTGCTCTGCCATCTCAGGATATTGGTTGTTCCCTCATAGTAATAAGATGGCT
GTGGCATTTCACCATCCAAAAAAGGGAAGGATTTAGGAGGTGGAGTCGGGTCAAACAAGAAATATATATAT
ACATATATACATTGCTTAGAACGTTAACTATTAGAGTATTTCCCTCCAAAGAGGGATGTTTGAAAAAAGCTCTG
AAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCTCTCCACTGCTGTACATGAGATGGGGAGGTTGAGGGACAG
GATCTATAGGCAGCTTCTAAGAGCAAACCTTCACACAGGAAGGGATCTGAGAACACATTGCCGGGGCTTGAGAAG
GTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCAATTAGTTCCAGTTT
CTCCTTGAAATGAGTAAAACTAGAAGGCTTCTCCACAGTGTGTGCCCCCTTCACTCATTTTTATTGGCGGG
GTGGGGGGCTCTGTTAACATCTAGCCTAAGTATAGAAGTGCCTGGGGGAGGTTAGGAATCTCTTCACTACCC
TGATTCTTGATTCTGTTCTACCCTGTCTGTCCCTTTCTTTTACTAGATCTTCTCTTCCCTGAACGTTTTCT
TCTTCCCTGGACAGGCAGCCTCCTTTGGGTGATTAGAGGAGTGTGACTTGCTGTCCAGGCAGCTCCCTCC
TGCAGACAGAAATGCTCAGGCTCACTGAACCACTGCTTCTCTCCGAAAGTAGAGCTAGCTGCCACTTTCGCATGG
CCTCCGGAGTGTCTCCACCTACACCTCTGTGCTCCCCCGCCACACTGATGGCTCAAGACAAGGCTGGCAAACCT
CCCAGAAATGCTCTGCGCCAGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGTGCTCA
TGAGCCAGTGGGCTGCCACAGAGCAAACGAGGGTTATTTTTCAGTCCCTCTCTCTGGATCAGAACAGAGAGC
ATGCTGAATGCCCTCTGCTCGGTAAAGGTGCCCCACCTGAATCAGTGCTCTCAGCTGGCAGTGCAATGCT
TGTAAGTAGGAGGAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCAAGTGCTCACCTCAAAGGAG

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FIGURE 4712B

GCCCTGTTCCCTGGAGTCAGGGTGAACCTGCAAACCTTTGGCTGAGACCTGGGATTTGAGATACCACAAACCTGCTG
TGAACAGAGTGTCTGTTTCAGCAAACCTAACCAGCATTCCCTATAGCCTAGGGAATAGTATAGAAGTCTGGCAAAAA
CAGAAACAGAACATCAGTGTGTTTGAAGAACCTTGACTACTCCTGTCCCTGTAGCTCAGTCATCAAAGCAGAAGCC
TGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGTGGAAGG
AAGGAGGGCCTTTCTTCTGTGTTAATTGCATGGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTGTT
TTGAGCTATTACCTCAGTAGAAAAGAATCTAAGGGAAGATCACTGTAGTTTAGCTCTGTTGACCTGTGCACCTA
CCCCTTGGAAATGTCTGCTGTTATTCTAATTCACAGGTCATAAGATGCCTTCTTGATGATATATGAACGATAA
AAACAACCTTTCACTTCTTCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTGG
ATGGCACCCCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGTATCTGCTGAGTAAGG
AACACTATTCTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCTG
GATTTCTAACAGTCCTTGCTTCGGGGCTGTGCTGGCAACTTAACCTCGGGTGCCTTACATCTTTTCTAATCATAGT
GTTGCATATGAGCCTGCCCTCACTCCCTCTGTGGAATCCCTTTGCACCTGAGAGCCTACTGAAGTGGCTGGTAGA
AAAAGGGGCTGAGTGAAGGATTATCAGTATCGCGATTTGCAGGATTCCTTCTGGGCTTCATTCTGGAACTTT
TGTTAGGGCTGCTTTTAAAGTGCCACATTTGATGGAGGGTGAAGTAATTTGAATGTATTTGATTTATATATATA
TATATTTTAAAGTTTAAAGATGGTTGTAGCATTTAAATGGAATTTTCTCCTCGGTTTGCTAGTATCTTGGG
TGTATTCTCTCTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAGTGAGGTGGCCATGTTACGCTGGT
GGTTAAGGCCAGGGCCTCTCCTACCACTGTGCCACTGACTTGCTATGTCACCCTGGGCAAGTCACTTAACTATAA
GGTGCCTCAGTTTCTTCTGTAAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTGGAGCGTGA
CTAATGCTTTTGTAGAAAGCATTTTGGGATCCTTCAGCACAGGGATTCTCAAGACCTGAGTATTTTTATAATAGC
AATGTCCACCATCAACTTGATATGTCCGTGTGTCCAGATGCTGTCAATTAGTCTATATGGTTCTCCAAAAAATTG
AATGAATCCATTGGAGAAGCAGTGGATTAAGTAGCCAGACAAAATTTGAGAATGCATAAAAAACACATTGCCACG
GAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTCCCTTTTATGTGGGACATAGTAGTTACTT
GTGACAAGAATAATTTTGAATAATTTCTATTAACTCAACTCTGAAGCTAATTGTACTAATCTGAGATTGTGTT
TGTTTATAATAAAAGTGAAGTAATC

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FIGURE 4713

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTCCACGCACCGCGGCTAGCGCCGACA
CCCAGCTAGCGTGCAAGGCGCGCGGCTCAGCGCGCACCGCGGGCTTCGAAATCGCAGTCTCCGGCGACCCCG
AACTCCGCCCCGAGCCTCAGCCCCTGAAAGTGATCCTGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTGC
AGGACGATATCTCTAGCTCCTATACCACCACCACCACCATTACAGCGCCTCCTTCCAGGGTCCCGCAGAATG
GAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAGAAGACATTCGCCCTGATATAAAAGATGATATATATA
ACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTC
TGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCTACCTGCAACTTATACACCTGGCTTTGGGGGGTAT
TCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGTGGAGCCACTGATCTTACAAAGCTC
GGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGCG
ACCACCGTGCCCAACACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCTGACGTGGCTTTTTCTTCTCTC
ACGTGGGTGGCTGCTTGTGCGCAAACACCCAACGTGCAAGAGAAGGGCAGTACGCTAGACTTGTCTGACCTAG
AAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGCTGTTGATGTGCTTCATCTGCCCA
CGCTTGTGCCCTGGTGTCTTCTGGGGTGAACCTTTTCAAAACAGCGTGTTCGTTGCCACTTTCTTGCGATATGCTG
TGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCACCTCTTCAGATATCGTCTTATGACAAGAACATTA
GCCTCCGGGAGAATATCCTGGTTTACCTGGAGCTGTGGGTGAGGGCTTTCACAACTACCACCACTCCTTTCCCT
ATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTACCACATTCTTCATTGATTGCATGGCCGCTTCG
GTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAGAAGACCGGAGAGGGAACT
ACAAGAGTGGCTGAGTTGGGGTCCCTCAGGTTCTTCTTCAAAAGCCAGCCAGGCAGAGGTTTAAATGTCTGTT
TATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACCCATTCCAGTACAGTATTCTTTTAA
AATTCGAAAGTATTGAAAGCC

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FIGURE 4714

CTTCCCTTTTGC GGCCATCACC GAAGCGGGAGCGGCCAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGATTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGCGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTCACCCAGCAAGGTGGTTATCACTAGGCTAAACTGGA
CAAAGACCGCAAAAAGATCCTCGAACGGAAGCCAAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACCATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTTGATTAAACTTGAAACAAAGAAAA

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FIGURE 4715

MKFNPFVTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRGHHYKGQQIGKVQVYR
KKYVIYIERVQREKANGTTVHVGIHPKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

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FIGURE 4716A

GGAGAAGGCGGGCGGAAGTTCCACGCCAAGATACTGGATTTCGGTGCTGAGGCGGCGGCTGCGGCACGGGAAAGGC
TCAGTGACTGAAGCTCCAAAGGCCAGCAGGCTGGTGGGGACGTGACCGAAGCGAGGCTCTGGTTCCCTTTTCGGTG
GGCGCCATTTGAGCCTCATCTCTGGCTTCCCCAGGATGCGCCGGCAGCCGGGGAGCGGCTCCGGGCGCGAGGTCT
GAGGATGATCTTTCTGTGCGCCGCTACGCGCTCCGGTGGCTGCGACGGCCCGAAGACCGTGCCTTTTCCGCGC
CGCCATGGAGATGGCCCTCCGAGGCGTGGGAAAGTCTCTGTGTGGCCGAAAAAACGACGCGGCCAAGGGGAT
CGCCGACCTGCTGTCAAACGGTGCATGAGGCGGAGAGAAGGACTTCAAATTCACAAGATCTATGAATTTGA
TTATCATCTGTATGGCCAGAATGTTACCATGGTAATGACTTCAGTTTCTGGACATTTACTGGCTCATGATTTCCA
GATGCAGTTTCGAAAATGGCAGAGCTGCAACCCTCTTGTCCTCTTTGAAGCAGAAATTGAAAAGTACTGCCCAGA
GAATTTTGTAGACATCAAGAAAACCTTTGGAACGAGAGACTCGCCAGTGCCAGGCTCTGGTGATCTGGACTGACTG
TGATAGAGAAGGCGAAAACATCGGGTTTGAGATTATCCACGTGTGTAAGGCTGTAAAGCCCAATCTGCAGGTGTT
GCGAGCCCGATTCTCTGAGATCAACCCCATGCCGTGAGGACAGCTTGTGAAAACCTGACCGAGCCTGATCAGAG
GGTGAGCGATGCTGTGGATGTGAGGCAGGAGCTGGACCTGAGGATTGGAGCTGCCTTTACTAGGTTCCAGACCCT
GCGGCTTCAGAGGATTTTTCTGAGGTGCTGGCAGAGCAGCTCATCAGTTACGGCAGCTGCCAGTTCCCCACACT
GGGCTTTGTGGTGGAGCGGTTCAAAGCCATTACGGCTTTTGTACCAGAAATCTTCCACAGAATTAAAGTAACTCA
TGACCACAAAGATGGTATCGTAGAATTCAACTGGAAGGCGATCGACTCTTTAACCACACGGCTGCCTAGTTCT
CTATCAGTTGTGTGTGGAGGATCCCATGGCAACTGTGGTAGAGGTCAGATCTAAGCCCAAGAGCAAGTGGCGGCC
TCAAGCCTTGACACTGTGGAGCTTGAGAAGCTGGCTTCTCGAAAGTTGAGAATAAATGCTAAAGAAACCATGAG
GATTGCTGAGAAGCTCTACACTCAAGGGTACATCAGCTATCCCGAACAGAAACAAACATTTTTCCAGAGACTT
AAACCTGACGGTGTGGTGGAACAGCAGACCCCGATCCACGCTGGGGGGCCTTTGCCAGAGCATTCTAGAGCG
GGGTGGTCCACCCACGCAATGGGAACAAGTCTGACCAAGCTCACCTCCCATCACCCACCAATAACACAA
CAACTTACAGGGAGATGAACAGCGACTGTACGAGTTTATTGTTGCCATTTCTGGCTTGCTGCTCCAGGATGC
TCAGGGGCGAGAGACCACAGTGGAGATCGACATCGCTCAGGAACGCTTTGTGGCCCATGGCCTCATGATTCTGGC
CCGAAACTATCTGGATGTGTATCCATATGATCACTGGAGTGACAAGATCCTCCCTGTCTATGAGCAAGGATCCCA
CTTTCAGCCAGCACCCTGGAGATGGTGGACGGGGAGACCAGCCACCCAAGCTGCTCACCAGGCGCGACCTCAT
TGCCCTCATGGAGAAGCATGGCATTGGTACGGATGCCACTCATGCGGAGCACATCGAGACCATCAAAGCCCGGAT
GTACGTGGGCCTCACCCAGACAAGCGGTTCTCCCTGGGCACCTGGGCATGGGACTTGTGGAAGGTTATGATTCT
CATGGGCTATGAAATGTCTAAGCCTGACCTCCGGGCTGAACTGGAAGCTGATCTGAAGCTGATCTGTGATGGCAA
AAAGGACAAATTTGTGGTTCTAAGGCAGCAAGTGCAGAAATACAAGCAGGTTTTCAATTGAAGCGGTGGCTAAAGC
AAAGAAATTGGACGAGGCCCTTGCCCAAGTACTTTGGGAATGGGACAGAGTTGGCCAGCAAGAAGATATCTACCC
AGCCATGCCAGAGCCCATCAGGAAGTGCCACAGTGCAACAAGGACATGGTCTTAAGACCAAGAAGAATGGCGG
GTTCTACCTCAGCTGCATGGGTTTCCAGAGTGTGCGCTCAGCTGTGTGGCTTCTGACTCGGTGCTGGAGGCCAG
CAGGGACAGCAGTGTGTGTCCAGTTTGTACGCCACACCCTGTGTACAGGTTAAAGTTAAAGTTTAAAGCGCGGTAG
CCTTCCCCGACCATGCCTCTGGAGTTTGTGCTGCATCGGCGGATGCGACGACACCCTGAGGGAGATCCTGGA
CCTGAGATTTTCAGGGGGCCCCCAGGGCTAGCCAGCCCTCTGGCCGCCTGCAGGCTAACAGTCCCTGAACAG
GATGGACAACAGCCAGCACCCCCAGCCTGCTGACAGCAGACAGACTGGGTCTCAAAGGCTCTGGCCAGACCCCT
CCCACCACCCACGGCTGCTGGTGAAAGCAATTCTGTGACCTGCAACTGTGGCCAGGAGGCTGTGCTGCTCACTGT
CCGTAAGGAGGGCCCCAACCGGGGCCGGCAGTTCTTTAAGTGCAACGGAGGTAGCTGCAACTTCTTCTGTGGGC
AGACAGCCCCAATCCGGGAGCAGGAGGGCCTCCTGCCTTGGCATATAGACCCCTGGGCGCCTCCCTGGGATGCCC
ACCAGGCCACGGGATCCACCTAGGTGGGTTTGGCAACCCTGGTGATGGCAGTGGTAGTGGCACATCCTGCCTTTG
CAGCCAGCCCTCCGTACACGGACTGTGCAGAAGGATGGACCCAAAGGGGCGCCAGTTCCACACATGTGCCAA
GCCGAGAGAGCAGCAGTGTGGCTTTTCCAGTGGGTGATGAGAACACCGCTCCAGGGACTTCTGGAGCCCCGTC
CTGGACAGGAGACAGAGGAAGAACCTGGAGTCGGAAGCCAGAAGCAAAAGGCCCGGGCCAGTTCTCTCAGACAT
GGGGTCCACAGCAAGAAACCCCGAAATGCAGCCTTTGCCACCAGCCTGGACACACCCGTCCCTTTTGTCTCA
GAACAGATGAGCTCAGGGTAGGGTAGAGAACGCCACTTTCTCAGACCTGTCCCTTTGTGTTTAGAAATGAGTTA
ACCAGGACCAAGTGGCCATTTAGTGTCTTGAAAACCTTAGAGGACAGTGTGGCCTTGGAGTCGGGCCTTCTTGT
GTTAAGGGGCACAAGGTCCAGATCACTCTGGAGCAGGCCAGCTCTGCTGGACAGTGACCCTCTTCCAGGCCTCA
GGAGTGACCATAGCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCAAGGATGGTTGCTGTAGCAG
AGGATTGGTGCAGTCCAGCTGAAGCCACTGTGTGCCAAAGGAAGAAGCTCCAGGGCTGCTTCTTACCTGC

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FIGURE 4716B

AGAAAGCCCCAAGTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCAGGGCTTCTCATAGACGTC
CTGAGAAGGACGGTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTA
ATCTAGTTAAGCCAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGG

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FIGURE 4717

MIFPVARYALRWLRRPEDRAFSRAAMEMALRGVRKVLCAEKNDAAKGIADLLSNGRMRRREGLSKFNKIYEFDY
HLYGQNVMTMVTSVSGHLLAHDFQMQRKWQSCNPLVLFEAETIEKYCPENFVDIKKTLERETRQCQALVIWTD
CD
REGENIGFEIIHVCKAVKPNLQVLRARFSEITPHAVRTACENLTEPDQRVSDAVDVRQELDLRIGAAFTRFQTLR
LQRIFFPEVLAEQLISYGSCQFPILGFVVERFKAIQAFVPEIFHRIKVTHDHKGIVEFNWKRHRLFNHTACLVL
Y
QLCVEDPMATVVEVRSKPKSKWRPQALDTVELEKLASRKLINAKETMRIAELTYQGYISYPRTETNIFPRDLN
LTVLVEQQTPDPRWGAFAQSILERGGPTPRNGNKSQAHPPIHPTKYTNNLQGDEQRLYEFIVRHFLACCSQDAQ
GQETTVEIDIAQERFVAHGLMILARNYLDVYPYDHWSDKILPVYEQGSHFQPSVEMVDGETSPPKLLTEADLIA
LMEKHGIGTDATHAEHIETIKARMYVGLTPDKRFLPGHLGMGLVEGYDSMGYEMSKPDLRAELEADLKLICDGKK
DKFVVLRRQQVQKYQVFIKAVAKAKKLDEALAQYFGNGTELAQQEDIYPAMPEPIRKCPQCNDMVLKTKKNGGF
YLSCMGFPCEKSAVWLPDSVLEASRDSSVCPVCQPHVYRLKLKFKRGS LPPTMPLEFVCCIGGCDDTLREILD
L
RFSGGPPRASQPSGRLQANQSLNRMDNSQHPQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNCGQEA
VLLTVR
KEGPNRGRQFFKCNNGGSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPGPGIHLGGFGNPGDGS
SGTSCLCS
QPSVTRTVQKDGPNGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDGRGTLESEARSKRPRASS
SDMG
STAKKPRKCSLCHQPGHTRPFQNR

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FIGURE 4718

GCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTTAGCAGAGGATTGGTGCA
GTCCCAGCTGAAGCCCCTGTGTGCCAAAGGAAGAAGCTCCCAGGGCTGCTTCCTTCACCTGCAGAAAGCCCCAA
GTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCAGGGCTTCTCATAGACGTCCTGAGAAGGACG
GTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTAATCTAGTTAAGC
CAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGTGGGGGGCGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCTG
TCTCTACTAAAATACAAAAAATTAGCCAGGTGTGGCGGTGTGCGCCTGTAGACCCGGCTACTCAGGAGGCTGAGG
TTGCAGTGAGCTGAGATCGGGCCATTGCACTCCAGCCTGGGCAAAAAGAGTGAAACTCTGTCTCAAGAAAAAAA
AAAAA

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FIGURE 4719A

CTAGCCCGGCGCGGCCCGGCAGCGAGAGCGGCGCCATGAGAGGCCACCGGGGTGCTGCCGTTCTGTCGTGGCGTGG
ACCTCAGCGGCAACGACTTCAAGGGCGGCTACTTCCCTGAGAATGTCAAGGCCATGACCAGCCTGCGGTGGCTGA
AGCTGAACCGCACTGGCCTCTGCTACCTGCCCCGAGGAGCTGCCCGCCCTGCAGAAGCTGGAACACTTGTCTGTGA
GCCACAACAACCTGACCACGCTTCATGGGGAGCTGTCCAGCCTGCCATCGCTGCGCGCCATCGTGGCCCCGAGCCA
ACAGTCTGAAGAATTCGGAGTCCCCGATGACATCTTCAAGCTAGATGATCTCTCAGTCTGGACTTGAGCCACA
ACCAGCTGACAGAGTGGCCGCGGGAGCTGGAGAACGCCAAGAACATGCTGGTGTGAACCTCAGCCACAACAGCA
TCGACACCATCCCCAACAGCTCTTCATCAACCTCACTGACCTACTATACCTGGACCTCAGCGAGAACC GCCTGG
AGAGCCTGCCCCCGCAGATGCGCCGCTGCTGCACCTGCAGACGCTCGTGCTCAATGGAAACCCCTGCTGCATG
CACAGCTCCGGCAGCTCCCAGCGATGACGGCCCTGCAGACCTGCACCTGCGGAGCACCCAGCGCACCCAGAGCA
ACCTGCCCCACCAGCCTGGAGGGTCTGAGCAACCTGCGAGACGTGGATCTGTCTGCAATGACCTGACACGGGTGC
CCGAGTGTCTGTACACCCTCCCCAGCCTGCGCCGCTCAACCTCAGCAGCAACCAGATCACGGAGCTGTCCCTGT
GCATAGACCAGTGGGTGCACGTGGAACTCTGAACCTGTCCGAAATCAGCTCACCTCACTGCCCTCAGCCATTT
GCAAGCTGAGCAAGCTGAAGAAGCTGTACCTGAATTCCAACAAGCTGGACTTTGACGGGTGCCCTCAGGCATTG
GCAAGCTCACCAACCTGGAAGAGTTTCATGGCTGCCAACAACAACCTGGAGCTGGTCCCTGAAAGTCTCTGCAGGT
GCCCCAAGCTGAGGAACTTGTCTGAAACAAGAACCACCTGGTGACCCTCCAGAAGCCATCCATTTCTTGACGG
AGATCGAGGTCTGGATGTGCGGGAGAACCCCAACCTGGTCATGCCGCCAAGCCCGCAGACCGTGCCGCTGAGT
GGTACAACATCGACTTCTCGCTGCAGAACAGCTGCGGGTAGCGGGTGCCTCTCTGCTACCGTGGCTGCAGCTG
CAGCTGCAGGGAGTGGGCCCCAAGGACCTATGGCTCGCAAGATGCGACTGCGGAGGCGCAAGGATTCAGCCCAGG
ATGACCAGGCCAAGCAGGTGCTGAAGGGCATGTGAGATGTTGCCAGGAGAAGAACAAGCAGGAGGAGAGCG
CAGATGCCCCGGGCCCCAGCGGGAAGGTGCGGGCTTGGGACCAGGGCCTGGAGAAGCCCCGCTTGACTACTCCG
AGTTCTTACGGAGGACGTGGGCCAGCTGCCCCGACTGACCATCTGGCAGATAGAGAACTTCGTGCCCTGTGCTGG
TGGAGGAAGCCTTCCACGGCAAGTTCTACGAGGCTGACTGCTACATTGTGCTCAAGACCTTTCTGGATGACAGCG
GCTCCCTCAACTGGGAGATCTACTACTGGATTGGCGGGGAGGCCACACTCGACAAGAAAGCTTGCTCTGCCATCC
ACGCTGTCAACTTGCGCAACTACCTGGGTGCTGAGTGCCGCACTGTCCGGGAGGAGATGGGCGATGAGAGCGAGG
AGTTCTGTCAGGTGTTTGACAACGACATCTCTACATTGAGGGTGGAAACAGCCAGTGGCTTCTACACTGTGGAAG
ACACACACTATGTACCAGGATGTATCGTGTGTATGGGAAAAAGAACATCAAGTTGGAGCCTGTGCCCTCAAGG
GGACCTCTCTGGACCCAAGGTTTGTTCCTGCTGGACCGAGGGCTAGACATCTACGTATGGCGGGGGGCCAGG
CCACACTGAGCAGCACCAAGGCCAGGCTCTTTGCAGAGAAAATTAACAAGAATGAGCGGAAAGGGAAGGCTG
AGATCACACTGCTGGTGAGGGCCAGGAGCTCCCAGAGTTCTGGGAGGCACTGGGTGGGGAGCCCTCTGAGATCA
AGAAGCACGTGCCGAAGACTTCTGGCCGCGCAGCCCAAGCTGTACAAGGTGGGCCTGGGCTTGGGCTACCTGG
AGCTGCCACAGATCAACTACAAGCTCTCCGTGGAACATAAGCAGCGTCCCAAGGTGGAGCTGATGCCAAGATGC
GGCTGCTGCAGAGTCTGCTGGACACGCGCTGCGTGTACATTCTGGACTGTTGGTCCGACGTGTTTCATCTGGCTCG
GCCGCAAGTCCCCGCGCCTGGTGCAGCTGCCGCCCTCAAGCTGGGTGAGGAGCTGTGCGGGATGCTGCACCGGC
CACGCCATGCCACGGTCAGCCGCAGCCTCGAGGGCACCGAGGCGCAGGTGTTCAAGGCCAAGTTCAAGAATTGGG
ACGATGTGTTGACGGTGGACTACACACGCAATGCGGAGGCGCTGCTGCAGAGCCCGGTCTCTCCGGGAAGGTGA
AACGCGACGCCGAGAAGAAAGACCAGATGAAGGCTGACCTCACTGCGCTTTTCTGCGCGGCAGCGCCCATGT
CGCTGGCCGAGGCGGAGCAGCTGATGGAGGAGTGGAAACGAAGACCTAGACGGCATGGAGGGTTTCGTGCTGGAGG
GCAAGAAGTTTGC CGGCTGCCGGAAGAGGAGTTTGGCCACTTCTACACGCAGGACTGCTACGTCTTCTCTGCA
GGTACTGGGTGCTGTGGAGTACGAGGAGGAGGAAAAGGAAGACAAGGAGGAGAAGGCCGAGGGCAAAGAAG
GCGAGGAAGCAACCGCTGAGGCAGAGGAGAAGCAGCCAGAGGAGGACTTCCAGTGCAICGTGTACTTCTGGCAGG
GCCGTGAAGCCTCAATATGGGCTGGCTCACCTTCACCTTCAGCCTGCAAAAGAAGTTTCGAGAGCCTCTTCCCTG
GGAAGCTGGAGGTGGTACGCATGACGCAGCAGCAGGAGAACCCCAAGTTTCTGTCCATTTCAGAGGAAGTTCA
TCATCCACCGGGCAAGAGGAAGGCGGTCCAGGGCGCCCAACAGCCAGCCTCTACCAGATCCGCACCAACGGCA
GCGCCCTCTGCACCCGGTGATCCAGATCAACACCGACTCCAGCCTCTCAACTCCGAGTTCTGCTTCATCTCA
AGGTTCCCTTTGAGAGTGAGGACAACCAGGGCATCGTGTATGCCTGGGTGGGCGGGCATCAGACCCTGACGAAG
CCAAGTTGGCAGAAGACATCTGAACACCATGTTTGACACCTCTACAGCAAGCAGGTTATCAACGAAGGTGAGG
AGCCTGAGAACTCTTCTGGGTGGGCATTGGGGCAGAAAGCCCTATGATGACGATGCCGAGTACATGAACACA
CAGCTCTCTCCGGTGTCTCAACGAGAAGGGCTACTTTGCAGTACTGAGAAATGCTCCGACTTTTGCCAAGATG

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FIGURE 4719B

ACCTGGCAGATGATGACATCATGTTGCTAGACAATGGCCAAGAGGTCTACATGTGGGTGGGGACCCAGACTAGCC
AGGTGGAGATCAAGCTGAGCCTGAAGGCCTGCCAGGTATATATCCAGCACATGCGGTCCAAGGAACATGAGCGGC
CGCGCCGGCTGCGCCTGGTCCGCAAGGGCAATGAGCAGCACGCCTTTACCCGCTGCTTCCACGCCTGGAGCGCCT
TCTGCAAGGCCCTGGCCTAAGACAGGCTGGCACAGCCCCAGGCTTGGTGAGGAAGAGGAAGGGGCCTCATCCACT
GTCTGCTAGCAAAGAATGTACTCAGGTGACACCACCTGCTCCAGCCACGTCCAGTGCCACAGTCCCCAGTAGCCT
CAAGCAGCACCAATGGGGATGACCCTGACAGGTGCCCTCAGGGGTCTGGGAAATCCAACCTCTCTCCACAGTGTGA
GTGCACGTGTGAAGCCCCCTCACTCTTCCGCTAGGGATAAAGCAGATGTGGATGCCCTTTAAGAGATATTAAATG
CTTTTATTTTCAATATT

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FIGURE 4720

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRGTGLCYLPEELAAQKLEHLSVSHNNLTTLHGEL
SSLPSLRAIVARANSKNSGVDDIFKLDDLSVLDLSHNQLTECPRELENAKNMLVLNLSHNSIDTIPNQLFINL
TDLLYLDLSENRLSLPPQMRRLVHLQTLVLNGNPLLHAQLRQLPAMTALQTLHLRSTQRTQSNLPTSLEGLSNL
ADVDSLSCNDLTRVPECLYTLPSLRRLNLSSNQITELSLCIDQWVHVELNLNLSRNQLTSLPSAICKLSKLKKLYLN
SNKLDGDFGLPSGIGKLTNLEEFMAANNLELVPESLCRCPKLRKLVLNKNHLVTLPEAIHFLTEIEVLDVRENPN
LVMPPKPADRAAEWYNIDFSLQNQLRLAGASPATVAAAAAAGSGPKDPMARKMLRRRKDSAQDDQAKQVLKGMS
DVAQEKNNKQESADARAPSGKVRRWDQGLEKPRLDYSEFFTEDVGQLPGLTIWQIENFVPLVEEAFHGKFYEA
DCYIVLKTFLDDSGSLNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGDESEEFQVFDNDISY
IEGGTASGFYTVEDTHYVTRMYRVYGKKNIKLEPVPLKGTSLDPRFVFLDRGLDIYVWRGAQATLSSTTKARLF
AEKINKNERKGKAEITLLVQGQELPEFWEALGGEPSEIKKHVPEDFWPPQPKLYKVGLGLGYLELPQINYKLSVE
HKQRPKVELMPRMRLQLSLDTRCVYILDWSDVFIWLGRKSPRLVRAAALKGQELCGMLHRPRHATVSRLEG
TEAQVFKAKFKNWDDVLTVDYTRNAEAVLQSPGLSGKVKRDAEKKDQMKADLTALFLPRQPPMSLAEEQLMEEW
NEDLDGMEGFVLEGKKFARLPEEEFGHFYTQDCYVFLCRYWVPVEYEEEEKKEDKEEKAEGKEGEETAEEAEKQ
PEEDFQCIVYFWQGREASNMGWLTFTFSLQKKFESLFPKGLEVRMTQQQENPKFLSHFKRKFIIHRGKRKAVQG
AQQPSLYQIRTNQSALCTRCIQINTDSSLLNSEFCFILKVPFESEDNQGIVYAWVGRASDPDEAKLAEDILNTMF
DTSYSKQVINEGEEPENFFWVGIGAQKPYDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDN
GQEVYMWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRLRLVRKGNEQHAFTRCFHAWSAFCKALA

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FIGURE 4721A

AGACTGTGGAGCATGGCTTCCCCAATCAGCCCAGCGCCTGGCCTTCGACCCGGAACCTCGCATCATGGCCATCG
GCACCAGGTCTGGGGCTGTCAAGATCTATGGTGCACCTGGCGTGGAGTTCACAGGCCTGCACCGGGATGCAGCCA
CTGTACACAGATGCACCTTCTTGACCGGCCAGGGCCGCTCCTGTCCCTGCTTGATGACAGCAGTCTGCATCTCT
GGGAGATTGTCCACCATAATGGCTGTGCCACCTGGAAGAAGCACTCAGTTTCCAGCTGCCAGCGGCCCGGCT
TTGATGGTGCCAGTGCTCCGCTCAGCCTTACCCGAGTCACAGTGGTCTGCTGGTGGCTGCCGGCGACATAGCAG
CCCTGGGCACTGAGGGCAGCAGTGTCTTCTTCTGGATGTTACCACCCTGACCCTGCTCGAGGGGCAGACGCTTG
CCCCAGGCGAGGTTCTGCGCAGCGTGCCAGACGACTACCGCTGTGGGAAGGCACTGGGCCCCGTGGAGTCACTCC
AGGGACACCTGCGGGACCCCAAAAGATTCTCATTGGCTACAGCCGGGGCCTGCTGGTCACTGGAACCAAGCCT
CGCAGTGTGTGGACCACATCTTCTGGGGAACCAGCAGCTGGAGAGCCTATGCTGGGGCGTGATAGCAGCACTG
TGGTCAGCTCACACAGCGATGGCAGCTATGCTGTCTGGTCTGTGGATGCCGGCAGCTTCCCAACGCTGCAGCCCA
CGGTAGCCACCACACCTTACGGCCCCCTTCCCTGCAAGGCCATTAACAAGATTCTGTGGCGGAACCTGTAATCTG
GGGGCCACTTTATCATCTTCAGCGGTGGCATGCCCGTGCCAGCTATGGTGACCGCCACTGTGTAAGTGTGCTTC
GAGCCGAGACATTGGTGACGCTGGACTTCACTTCCCGCATCATCGACTTCTTCACAGTGCACAGCACAGGCCCCG
AGGATGAATTTGATGACCCCCAGGCCCTGGCTGTGCTGCTGGAAGAGGAGCTGGTGGTGTGGACCTGCAGACTC
CTGGCTGGCCAGCTGTGCTGCCCATACCTGGCCCCGCTGCACCTCTCTGCAATCACTTGCTCGGCCCCACGTGG
CCAGTGTCCCCGCCAAGCTGTGGGCCCGCATTGTGAGCGCTGGCGAGCAGCAGAGCCCCAGCCTGTCTCCAGTG
CCTTGAGCTGGCCCATCACTGGGGGCCGAAACCTGGCCAGGAGCCGTCACAGCGAGGGCTGCTGCTGACGGGCC
ATGAGGACGGCACCGTGAGGTTCTGGGATGCCTCGGGTGTGGCGCTGCGGCCGCTCTATAAGCTGAGCACAGCTG
GCCTCTCCAGACAGACTGTGAGCACGCTGACAGCCTGGCCAGGCTGCCGAGGACGACTGGCCACCCTTCCGCA
AGGTGGGCTGCTTCGATCCCTACAGTGACGATCCCCGGCTTGGCGTGCAAGGTTGCTCTCTGCAAGTATACAG
CCCAGATGGTGGTGGCTGGCACTGCAGGCCAGGTGCTGGTACTGGAGCTTAGTGATGTGCCGCTGGAGCAGGCGG
TCAGCGTGGCCATCATAGACCTCCTCCAGGACCGCGAGGGCTTCACATGGAAGGGCCACGAGCGGCTGAGCCCCAC
GCACGGGGCCGCTGCCCTGGCCTGCTGGCTTCCAGCCCCGTGTCTCTGGTGCAGTGCCTGCCGCCAGCTGCTGTAA
CCGCTGTACACTCCACACCGAGTGGAGCCTCGTGGCTTTTGGCACCAGTCACTGGCTTTGGCCTCTTCGACTACC
AGCGCAAGAGCCCTGTGCTGGCCAGGTGCACTCTTACCCCCAATGACTCCCTGGCCATGGAGGGTCCGCTCTCCC
GGGTGAAGTCTCTCAAGAAGTCACTGCGCCAGTCTTTCCGGCGCATTGCGAAGAGTCGTGTCTCTGGCAAGAAGC
GGGCTGCTAATGCCAGCAGCAAGGAAGCCAATGCACAGCTGGCTGAGCAGGCCTGCCCCACGACGTGGAGATGA
CGCCCGTGCGAGCGCCGATTGAGCCCCGCTCTGCCGATGACTCCTTGTGCGGTGTGCTGCGTGTGCTTACTTTG
CCGACACATTCTTCGAGATGGGGCCCCACACGGGCCACCATGTGGGCTGGCACCAACTCAGGCTCTGTGTTCCG
CCTATGCACTGGAGGTGCCGGCAGCAGCAGTGGGTGGTGAGAAGCGGCCTGAGCAAGCGGTGGAGGCCGTGCTGG
GCAAGGAGGTGCAGCTGATGCACCGGGCGCCTGTGGTGGCCATTGCCGTGTTGGACGGGCGTGGCCGCCCACTGC
CCGAGCCCTACGAGGCCTCACGGGACCTGGCGCAGGCACCTGACATGCAGGGTGGTACGCTGTGCTCATCGCAT
CTGAGGAGCAGTTCAAGGTGTTCACTGCCCCAAGGTGAGCGCGAAGACCAAGTTCAAGCTGACGGCCCCATGAGG
GCTGTCTGTGCGCAAGGTGGCACTGGCCACGTTTGCCAGTGTGGCCTGCGAGGACTATGCTGAGACCTGCCTGG
CCTGCCCTACCAACCTGGGTGACGTCCACGTCTTCTCGGTGCTGGCCTGCGGCCCCAGGTGCACTATTCTTGCA
TCCGGAAGGAGGACATCAGCGGCATCGCTTCTGTGCTCTTACGCGCCATGGCCAGGGCTTTTACCTGATATCCC
CATCAGAATTTGAACGCTTCTCCCTAAGTGCCCGGAACATCACAGAGCCGCTCTGCTCTCTGGACATTAACCTGGC
CCCCGATGCCACCCAGGCCAGTTACAGGATCCGAGAGTCACCCAAGCTGAGCCAGGCTAACGGGACCCCAAGCA
TCCTGTGGCCCCACAGAGCCTTGATGGAAGCCCTGATCCAGCCACAGCATGGGACCTGACACCCCGGAGCCAC
CCGAGGCTGCACTCTCACCCATGTCCATCGACTCAGCCACCAAGTGTGACACCACGCTGGACACGACAGGGGACG
TCACAGTGAAGATGTGAAGGATTTCTGGGCTCCTCTGAGGAGTCAGAGAAGAACCTGAGGAACCTGGCAGAAG
ACGAGGCCCCACGCTGTGCCATCCTGATCAAATGAGGAAGGCCAGAACTATCCCGACCTCCACCTGCCCTGCTCG
GAGCTGGAGTGTGATCCCTGGCACCTGCCTGGCCCCCTTAACATAGAACCACGCTGCTAACCTGTAGGCTCCA
CTGGGACCTGCTGTCTGTCCCGCTGACCCTGGGCCCTGGAGCAGCACCAGCCCCAGGGTGTGGGCTGGGACC
TGGGCCAGAACTGAGCCCTCCTGCAGGCATTTGGCTGCCCTGGGGGCCCACTGCCTAGGGAAGAGGACAGGTGGG
GCCCAGCACTGTGCCACCTCCCCCCTCCACACACCATCCTTCCCCCTCACTTTGCAGAGTATTTTCTCTTTT
TTTTTTTTTCTTAAAGACGGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCCCCATCTCTGCTCACTGCA
AGCCCCGCTTCTGGGTTCCCGCCATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCCAACC

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FIGURE 4721B

ACGCCCAGCTAATTTTTCTGTATTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATGGTCTCG

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FIGURE 4722

MMKFRFRRQGADPQREKLKQELFAFNKTVEHGFPNQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTGLHRDA
ATVTQMHLFTGQGRLLSLDDSSLHLWEIVHHNGCAHLEELSFQLPSRPGFDGASAPLSLTRVTVLLVAASDI
AALGTEGSSVFFLDVTTLLLEGQTLAPGEVLRSPDDYRCGKALGPVESLQGHRLDPTKILIGYSRGLLVIWNQ
ASQCVDHIFLGNQQLESICWGRDSSTVSSHSDGSYAVWSVDAGSFTLQPTVATTPYGFPCKAINKILWRNCE
SGGHFIIFSGGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFTVMHSTRPEDEFDDPQALAVLLEELVVLDLQ
TPGWPAVPAPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQSPQPVSSALSWPITGGRNLAQEPSQRGLLLT
GHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQAAEDDWPPFRKVGCFDPYSDDPRLGVQKVALCKY
TAQMVVAGTAGQVLVLELSDVPVEQAVSVAIIDLLQDREGFTWKGHERLSPRTGPLPWPAGFQPRVLVQCLPPAA
VTAVTLHTEWSLVAFGTSHGFLFDYQRKSPVLARCTLHPNDLAMEGPLSRVKSLLKSLRQSFRRIRKSRVSGK
KRAANASSKEANAQLAEQACPHDVEMTPVQORRIEPRSADDSLSGVVRCCLYFADTFLRDGAHHGPTMWAGTNSGSV
FAYALEVPAAAVGGEKRPEQAVEAVLGKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLI
ASEEQKFVFTLPKVSATKFKLTAHEGCRVRKVALATFASVACEDYAETCLACLTNLGDVHVFVSVGLRPQVHYS
CIRKEDISGIASCVFTRHGQGFYLI SPSEFERFSLSARNITEPLCSLDINWPRDATQASYRIRESPKLSQANGTP
SILLAPQSLDGSPDPAHSMGPDTPPEPPEAALSPMSIDSATSADTTLDTTGDVTVEDVKDFLGSSESEKLNRLA
EDEAHACAILIK

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FIGURE 4723A

GAGGATGCAGAGTGGGAGACCTTAAAACCGTCTGATCTGGCTGCTAAAGCGAGTGTCTGACGACCACCCATTAAAC
ACCAGCGAGTAGCGTTTGCTCACGGCTTTAGGATAAGAAGCCTGGAATGGTCCCCCTCCGCCGGGAGAAGAAAG
CCAGACGGTCATCCTTCCACCTGGCTGGCAGAGCTACCTGTGCGCTCAGGGCCGGCGGTACTATGTCAACACGAC
CACCAATGAGACCACCTGGGAACGTCCCAGAGTTCTCTGGGATTCCAGCCAGCCCTGGCTCTCACAGGAGCTC
TCTGCCCTCAACAGTGAATGGATACCACGCATCAGGGACCCAGCGCACCCCTCCAGAGACTGCCACATGAGTGT
CCGAAAAATCCACCGGTGATTCCAGAACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAAACCCAT
CACAATAAACTGTGTGACGTTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAG
CTACTGCGACTACTTCTGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACCGTGGCTGGGTTTGAACACTGCT
CCAGAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTCATCCGGGAAAGGATAAAGATTGAAGA
AGACTATGCGAAGAAGCTTAGCTAAGCTCTCTCAGAATCCTTGGCTTCACAGGAGGAAGGCTCCTTGGGAGAGGC
GTGGGCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTACCTCAAGTTCTCTGCCAAGCTTCACAGCGA
GGTGGAGAAGCCCCCTGATGAACTTCCGTGAGAACTTCAAGAAAGACATGAAGAAGTGCAGACCACCACATTGCCGA
CCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGAAAGCCCTCACAGAGCGGCAGAGAGA
CCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGAG
AAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAAATGGTTTGA
AGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGGCAGCACCTGTG
CCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACAGTCGAGCCCGTGGATCAGCTGCTTCG
AAAAGTGGACCCCGGCCAAAGACAGGGAGCTGTGGGTGAGAGAGCACAAGACGGGCAACATCCGCCCTGTGGACAT
GGAGATCTAGATGGGCCTGTGCAGCTTCGGGGGCTCTGCTGGGXGAXXGGGGGGXCTGGGCTCCCAACATGGG
GCCCATGCCGAGTGGATGCCCCCACCCTCTCTCTGGGCCACTGAGGAGAGGGGAGAGAGCTGGTGATTCCAGA
AGGGTGACCCGGACAGCCTAGCTGGGGGCTCCCCCATATTCCCAGGCCAGAAAGACAGACCCACAGCCCTGCCCT
TGCTCTGAGGCTGAAGACCCCTGACTCCCATGCTGTGCTTGGCGCTCTGAAACAAACAGAGGCTGGAACCTTG
TGGTCTTGCGCAGTTTTTGTAGGGGTCACTGTACATGCTTGTGCCCTGGAAGCCCCAAGGCTCTTCTCCAGCT
GGCTCCCTTGCTCCAGGGCTTTGGAGGATCAGGGTAGGGAGGGCTCTGTCTCTAAGCCAGGTGTCCAGGATCAGA
ATCATGGGTAGAAGGTGCCATTGAGCTCACAGCCGACCCAGAACTCCTTTGCAGCCCTCCTTCTTTATTTTTTC
CCATTGCATTCTGGGAGTCCACATCTGGCTTTCTCAGCCACTGTTTCATCACCAGGGGTTTTAGGAGGAAGGCTTG
GCTCCTGTCTTCCAGACCCACCATGCCTGGAGAGGTGAGGATGGAACCTACCTATTCCGGCAAATTAGCCCCAAA
TTGAGCGCTGAATCGTGTCCCATGAGATCAGGCCCATCTGTAAAGTCTCCTCTGGAAATGCCAATCCATCCTTC
CCCCAGCTGCTTCTCGGGGAGGCCCTGCCCCACCCCTGCCAGCCCTTCCAGTCTCATTAGAGGAAGCTTTCC
AAAGTTCTCAGTTATCAAGACCTCATCCAGCTCGTCCAAAGGCTTCAGGGATGGAACAAACCAGCTCGTCTCAG
AGGCCAGCAAGCTGGGGCCTGTCCGCCACGGTGCCCTGTGCACCTTTGGGCTGCCCTGGCCCCACTCTCCCGGG
CCGCCCACCACAGGCTCTTAATGGGGCCGGGTGAGTCTACATGTGAGATGGGTTAGGGCAAGTCTTTGCCATCC
CCCAGATGGCTCTGTCTTCTGTGTATGGCAGGGCTGGGACTGCTGTCCCTTGTACAGTTTTCTGTCACTGGTGG
GCACTGGACAGGCATAGCAGACTCTCTTGTGGCCACACTAGGTTGTGCGCTTTCAGGCAGTGTCCCGCCACCTTT
GCTTCCCGCTCCTTCTGGACATTCCAGAGCCCTGCACCAAACCTTACTTGGTGTCTGCACCTCCTTTCCCTCTC
TCCATCTTCCAATCCCTGGAAAGTCTGGTCTGAGTGTGACTTGGGAAGCTTTCAGTGTCTGTTTGGCCCAGC
TCATTACTTTCTCCCTTTCTCTACCACAGCAAACACATTCTCCACCATGTGAGTCTAAAGAGTCTAAAGGGGCCG
GGAGAAGCATGAGCGAGGGGCAGATTCTAGTCGGGAGCCCATGCCCTGGAAATCCATCTTCTTCATCTTTCCCA
TTGACCACTTTGGGTTTGACCTGCACATCTGCAGTGAGGGCAGAATTCAACAAGCACAACTCACTGGTCTTTTCAG
TCAACGTGCTAGAAACCGATGACTTATTAATCTCTAATTTTTTGGCGCCTCTTTCATTGAATGAGAATTGCTTTC
GTATAGTTACATTAGAAAAATGCCTAATATACTAAAGTAAACCAAACGTTGTCACTTTTCTCTTGTCTTGAAA
CATTGCAACCAAAAAGGTGAGCACAAGGCCCTTACCTACGTGAAGACCTCCTGGTAGGATCTGTCCATGGGATG
GAGAACCACTCTGTCCAGATCTGGGGTGGGTCATGACACCAGCTACCAATTTTAGAATATTATTTCTTGGTTTC
TTTATGAAAAATGGGTGCTAGTGGTAATTGCTTTGTGGCTTAGTAACTACTCTGTGGATGATTTCCAAACATTC
AAAGCCAATAGCCTTGTTATTAACAAGATATTTTGTAGTACAATATGGCTCATTGACTTTCCATTACATCTGAGG
ATTCCAGAGTCTCTGTTTATCCCTGGGATAGAGTGAGCCCTCTTGGCTCTTCCAGGGTAGCTCAGGTTGGCCCA
GTTTGGGCCAGTCCATTTTTTGGAGGTCACTCTTTCCCCCTCATCCCTCACCTCCTTCTTTACCCCTTCAC
GTACTTCCTTTCTTTCTTCCCTCTGTTATTTCATTATCAAGCAGGTTAAAGCCATTGTGCTAAGATCTAATCTGA

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FIGURE 4723B

GGACACTATAATGGCCCTGTCGTCAGGGAAGCCCGTGATCGCTCGTTTTTCAGGGGTCTTACCGGTGAGCAACCTT
GGCATTGATACATAGGCACTCTACAGAATTTAAGTTTTTCAGAGGTAAGTCTGTTGTTCTGATTAATCTGCATTCA
TTCAGCGAATGCTCAAGACAAGCCAGGCATGCTGAGAAGCGGCGCTCTAGTTGTATGTAAGATGGGCATTCTCT
GCTCTCCTCTATTCTCCATGTGACTGAGAAGAGTATAATAAGAACATTGTACCCTCTCCACACTTAACCCCTG
GGATTCTTTATTATAATATAAACCACCGTCGTGAGGCATTTACCTGTTGGATGGAAGGTAGACAGCAACAAGATT
TTAATCACCTGGTCACCAGACCCTCACGGCCCATATCCAATTCGAATTCAGAAATTTCTCTGTTTGCTTTAAAT
AACTCTTTTACAAATAAGGGTCGGGCACGGTGGCTCACGCCTGTAATCCCAGCTCTTTGGGAGGCCGAGGTGGGCA
GATCACGAGGTGAGGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAAT
TAGCCAGATGTGGTGGTGCACACCTGTAGTCCCAACTATTCGGCAGGCTGAGGCAGTAGAATCGCTTGAACCTGG
GAGGCGGAGATTGCAGTGAACCAAGATCGGGCCACTGCCTCCAGCTTGGGTGACAGAGCAAGACTCCATCTCAA
AAAAATTATAAATAACTCTTTGCAAATAGGAAAGTGAAGCTCAAGGGTAACCAGTGAGGCTATGAAATTGCCAGT
GAATTAAGACCAGGGCTAGAGTCAACAGTCCAGAACCCCTATCCGTATGAACAGGGGGCCGTTTCTGGTTGAAAT
CAAGGTTAGGATGCAACTGAGAAAATAAAAGACTGCATTTGGAGAGGCAAGCACGCTATCCGGGTGTTGTTTT
GTTTTATGCTTGGTGCTTAGGTGAGGACTTAGCTGGGTTTATTCAAAGTGGCGGGTCTGGGCTATTCTTGAGA
ATGTCCTTCCATTTCTGAGAACAAGTCAGCCCTTCTACCTGCCTCCACCAGGAGACTGATGCACAAGATCTG
TTTGTAAGCCCTGATTAAAAAGAAAAAAATTCCTTAAGCCAAATGGTGTCCAAGTTGGTTGCTGTGACA
ACCTCCAGGAAGAGCCACTTGTTACCTCTATTCTTTCTAGTGCTTTTCAGTCAGTGGCAACACATAGGCCCTTG
GACCGTGGGGATGGCGGCCCTGAGATTCTGTCAGTGGGACCACCCTGGGCCCTCTTTCTACCTCCACTCAGCACC
CTGTTGGCCAAGGAGAAATTTCTGCGGTGGGAGGCAGTGCTCTGCTAGTCAGGATTGATAAACAGCTGGGCACACC
GAAACAGTGTACCAACGAATTCACCAACCAGGGGGTTTCTTTCCCTACCCTTTGTGAAAACCAATCAATTACTAGA
TGAGTGGATGGATGCAGAAAAATCTGGGCTGAGCCAAAGTCCCTTTTGGAATACAAGCCATAACATTGCAAGGA
CATCAGCGACCTTGGCTTGTTAGGTGATTTTACTTCCAGCTGCAGGTAGTCTTGACAAGGAGTGTTTAAACAGA
AGGCTCAAGATGCATTCTGTGTAGGTGCGAGAGAGCACTTCTAATGTTAAGTGGGGTACAGATCAGCTGCCCC
CCCACGTAGCCTGGACATCGTCTTATCCCCATAATCCTTGCCATCCCTACAAGGCCATCGCCACCACCTTTTCC
CAGGTTTATTGAGGTATGATTGACATCCAGTAAAATTCACCTTTTGGAATATACAGCTCTGTGAATTTTGACAA
ATTTAGTGTCTTGTGACCATCACCAAGATCAACCTGTTTTTAACCTCCAAAAATTCCTTCTCCTGCCCTCTT
TCCCCTGGCAACCCTGATTGATTATCTGATCCTATAATTTTGCCTTTTCTAGAATGTCATATAAATGGAGTCACAC
TGATGTCGCCCTTTTGAGTCTGGCATCTTTCCCTCAGCTTAATGCTTTTGAGTCATTGATGTGTGCGTGTGGT
TTGTTCCCTTCTCCTTGCCGGGAAGTATTTCACTGTCATGGGCGTACTACTCTGCTTCTTTATTTTACACTGAGCC
TTTCGCCCTGGAAGTCTTGGCCCAGGGTCTTCAACTGTTTGCACGACCACTTCCAGCTTGCTGCTTCTTTCAG
TTCCCCAGGCTCCTCCTCCAAATGCCAGCTGTGCCACAAAGCTGTTCTTAGGGCTCACACTCGCCTTTTGGCGCG
TGGTGGGTTTTTGGTAGTGCAGAAAGATCCAGGGATGGGAGGGGAAGGACGGATGGGTGCTCAATTGCTGCTC
ACGTCTGCTGCAACCTGAAGCTTGCATCTCAGCCAGCAGATCTGCTCCCTTCTGGGACCCAGGCTCAGTGTAC
ACGGTCCCTGGCTATGTATTGGGCGTTGGAGGCTTTGAAAGGCGAGCAGAAGCAGCATGGACAAGAAGGCTGGGG
CTGGCCCTGGGGCTCATCATGATGCTTTCTGGATCTGTGCTTCATCTGCAAGCTGAGGGTGTGTTCTAGAT
GAGTGTCTCAGGCCACCGGCAACTGCATGTACCTCCTCCCTTTCTCATTTCCAATGATGTACCCTGTACACGTGT
TCATGCTGTGTCTGGCTCTCATCTGCACAAATCGTGCATAGAATTGCCCTCAAGTCTGGTGAGAGAGATGCCGTGG
TACTTTTCCATTTAGATTCAAATGGAGCTAAAATTAAGAGTTTTATGAGCTGTTAAGAATGAGGTAGTTTCTCCT
AGGACCCCCCAAAGACAGTGAAGTAATGACCGTTTGGATCTCATTGCTCGATCTTTGATAGTATGTTCTGGAGT
CTACTCCCCAGGAGCCAGGACAGGCGTGAAGATGGAGTCTTGTGCGAGCTGGAGCCTTGCCCTAGCTGGTGATCA
CACAGCCTGGCCTGTACCTGCACCCCACTGGATGGTGGTACATGGTGGCAGGGACAGGACCACCCAGTTAAGG
CCAGACCAGGCTGAGTGTGACCCCTGAGGTAAACACTCCACTAAGCTGTGTCTTGTTCATGCCCCCTGCTCAGTG
AAAGGTGAGTCCCGAGACCAGTTGGGTACCTCTCTATGCCGAACCAGAGACATTTCTGGATCCAGGCCAGGTGAAG
ATTAGGGCCAGGAAGCCTGAGCCCCCGGGGCTCAAGGTAGGGAGCCGAAGAGGCTGCCAGGACTCTGCTGGGTT
GAAATTTGCCGGGGAGGACTCTTGTCTCCCCCTCAGGAGTATTTTGTGAGGCTTCTCGGAGGTGAAGAAGCA
ATTCCTCATGTCAGCAGGTTAGAGCGAGAATCAGACAGAGGGGCAAAACCAATTCGCTTCTCCCCACGTTCTAAAT
GCTGGGGCATGGCTGTGAGGAGGGCTTCTGGGAGGTGTCTCTGGGGGTGGGGTGGGTTGGGGCATGGCCTTT
GGAGATTGCGTGTGGTGTTCAGGACTGTTCCCTGGTGTGTTGAGGGAACTTTAGTGGGATTGCAGTGAATGTAA

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FIGURE 4723C

GGTCAGGGCACGTGGGTGCTCTCTCGGGGTGGGGTGACTGGGAGACCTAGAGGGAAAGCCTGCTATGCAGGGGGA
GAGCACAGGACTGGCCCTGCTCTGCGGCCTCCTTTGTCCATAACCTGAAGTTAAGTCACATCCCCTGTCGGGAC
CTCCGTGCACTCATCTGTCAAGTGGGGGCGCTTCCCTTCCAGCATCACCTGCAGCAGACGGGCTCTCGGGAGTCG
TGGGTTCCAGGCAGCTGTGTGGACCCAGGGACAGACATTCAAAGGGACGCCAGCCATCCTTAGTGACAGGGGCCC
CAACTTAGCATCCCCTTCCCTTCCGTAGGAAGGAGATGACCGGAAGCAACCCCTTCACAGACACGAGCACATCGG
CAAACCTATGAAAGTGAATTTTCTAACAAAATAAACTTGCTTGTGATCTGTTTTCTGTAACTTTGTCTAAA
TACTTTATACATTTTTCATGTTAAAGAGCCGTGTCTCCCGCCAGCACTCCTCACCCTGGTATGAATGTGTTTCT
CCACATTGTATATCCTTCCACCCTCTGGCTGCCTAGATCAGTAAATAAAATTGATGTAATATAATTTATAAGTAA
CACTGTTGAAACCTGATCCCAGTGGAGGCTGTAACCCACCTGCCCCCGCACCACCCCTGACCCCTGTTACCG
CATTGTGTGTATTAATGCTGAAGAATTAAATGTTTAAAGAGTTTAAATTTGAAGCGTTTGCTATATACAGTT
GTCTGCATTATTATAAAGAGTTTTCAGGAAGTT

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FIGURE 4724

TCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCTGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAGCAT
ATTTTGCAGTACTCAACACCAACATCGATGGGCGGTGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTG
GGCCGAAGATATGCTCATGTGGTATTGAGGAAAGCAGACATTGACCTACCAAGAGGGCGGGAGAGCTCATTGAG
GATGAGGTGGAACGTGTGGTCACCATTATGCAGAATCCACGCCAGTACAAGATCCCCGACTGGTTTTTGAACAGA
CAGAAGGATGTAAAGGATGGAAAATATAACCAGGTCCTGGCCAACGGTCTGGACAACGAGCTCCGTGAAGACCTG
GAGCGACTGAAGAATATTCGGGCCCATAGAGGGCTGAGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACACC
AAGACCACTGGCCGCTGTGGCCGCACCGTAGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTTTGTTAATA
AATAGTTTATATACC

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FIGURE 4725

GCTGTCCTGAGCCTGAGTACTCTAGCTGCCTTGTGCGCCATCGCACTCTGGCTGCCATCCAGCGCCAGCACACAGTA
ATGAGTGGCCGAGCTTCCTCTGGGAGGGAGGAAACAGTTAAATCTTGACAGCAGCTGCAATCATCTAGGCGTGGT
TCTCTTGTCTGACTTGGGCTGCACAGATCCTGGGCCAAGGGACAGAAGAAAGACAGCCTAGGAGCAGAGCCTCCC
AGATGGGCTGAGTTGGATCTAATGGCTCCAGGGCCACTGCCAGGGCCACTGCTCAGCCCCCAGCCCCCTCTCAGCC
CAGACTCTGGGTACCCAGCCCAGATTCTGGGTACCCAGCCCAGTGAAGAAGAGGACGTGGGCTCCTCGGAGA
AGCTTGGCAGGGAGACGGAGGAACAGGACAGCGACTCTGCAGAGCAGGGGGATCCTGCTGGTGAGGGGAAAGAGG
TCCTGTGTGACTTCTGCCTTGATGACACCAGAAGAGTGAAGGCAGTGAAGTCCTGTCTAACCTGCATGGTGAATT
ACTGTGAAGAGCACTTGACCCGCATCAGGTGAACATCAAAGTGAAGGCCACCTGCTGACCGAGCCAGTGAAGG
ACCACAACCTGGCGATACTGCCCTGCCACCACAGCCCACTGTCTGCTTTCTGCTGCCCTGATCAGCAGTGCATCT
GCCAGGACTGTTGCCAGGAGCACAGTGGCCACACCATAGTCTCCCTGGATGCAGCCCGCAGGGACAAGGAGGCTG
AACTCCAGTGCACCCAGTTAGACTTGGAGCGGAACTCAAGTTGAATGAAAATGCCATCTCCAGGCTCCAGGCTA
ACCAAAAGTCTGTTCTGGTGTCTGGTGTCTCAGAGGTCAAAGCGGTGGCTGAAATGCAGTTTGGGGAACCTCCTTGCTG
CTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAGCCAGGCCAACG
GTATCAAGGCCACCTGGAGTACAGGAGTGCAGATGGAGAAGAGCAAGCAGGAGCTGGAGAGGATGGCGGCCA
TCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTTCCCTAGTGT
ACGTAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAGTTATCACGGAATCCACTGTACACTTAATCCAGTTGC
TGGAGAACTATAAGAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCAAGTGTCTGCCG
TTGTTACAGCGCAATATTGGACTTCCAAACCTGAGCCAGCACCAGGGAACAGTTTCTCCAAATATGCGTATGACA
TCACGTTTGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCAGGTCACCAACACCACGC
CCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCCCTGCACTGGCGGCAGGTGCTGTCCCAGCAGAGTCTGT
ACCTGCACAGGTACTATTTTGGAGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTGCAAAGGCATCG
ACCGGAAAGGGGAGGAGCGCAACAGTTGCATTTCCGGAACAACCTTCTCCTGGAGCCTCCAATGGAACGGGAAGG
AGTTCACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCCGGAGGCTCGGGGTCTATATCG
ACTTCCCGGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATACCATGACTCTGGTTTACAAGTTTGCCTGCA
AATTTTCAGAACCAGTCTATGCTGCCCTTCTGGCTTTTCCAAGAAGGAAAACGCCATCCGGATTGTAGATCTGGGAG
AGGAACCCGAGAAGCCAGCACCCTGCTTGGGGGTGACTGCTCCCTAGACTCCAGGAGCCATATCCCAGACCTTTG
CCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTTGTGGGCAGAAATAACTGCTGATGGTAGCTGGCTTTTG
AAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGTCTCCATATGGTGTCTTCTCTATGT
GTTTGCAGTAATCTTTTTTTTTTTTTTTTGTAGACGGAGTCTCGCACTGTTGCCAGGCTGGAGAGCAGTGGCGCGA
TCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCCTCAGCCTCCCGAGTAGCTGGGATTA
CAGGTGCCCTGCCACCACACCCAGCTAATGTTTTGTATTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCA
GATCTCAAACCTCCTGACCTCGTGATGCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACATGCGTGAGCCACTG
CGCCCTGCCTGTTTGTAGTAATTTTGTAGGCACCAATCTCCCTCATCTTCTAGTGCCATTCTCCTCTCTGTTTTCAG
GTAAATGTCACTGTGCCAGAAATGGATGACCAGGAACCTTAAAGAGTGGCTGAAAAGATTGCAGAGTTATCAT
AATAAATTGCTAACTTGCGT

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FIGURE 4726

MAELDLMAPGPLPRATAQPPAPLSPDSGSPSPDSGSSASFVEEEDVGSSEKLGRETEEQSDSDAEQGDPAEGKEV
LCDFCLDDTRRVKAVKSCSLTCMVNYCEEHLQPHQVNIKLQSHLLTEPVKDHNRWRYCPAHHSPLSAFCCPDQQCIC
QDCCQEHSHTIVSLDAARRDKEAELQCTQLDLERKLLNENAI SRLQANQKSVLVSSEVKAVAEMQFGELLAA
VRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSQELERMAAISNTVQFLEEYCKFKNTEDITFPSVY
VGLKDKLSGIRKVITESTVHLLIQLENYKKKLQEFSSKEEYDIRTQVSAVVQRKYWTSKPEPSTREQFLQYAYDI
TFDPDTAHKYLRLQENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYFFEVEIFGAGTYVGLTCKGID
RKGEERNSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFRRLGVIIDFPGGILSFYGVYDTMTLVHKFACK
FSEPVYAAFWSKKENAIRIVDLGEEPEKPAPSLGVTAP

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FIGURE 4727

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGCGCAGCCATGAACTCCAACGTGG
AGAAACTGCCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCAGCTCCAGGTACCATCGAGGGCCCTGAAGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAGGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGGCGGGCCGCTGCTCTTGGAGAACTCCGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGGCCAGCGGCAGGGCCGAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCCTCCTCCAC
CGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 4728

GGGCGGTGGCTTTGTTGGGTGAGCTTGTTTGTGTCCCTGTGGGTGGACGTGGTTGGTGATTGGCAGGATCCTGG
TATCCGCTAACAGGTCAAAATGCAGATCTTCGTGAAAACCCCTTACCGGCAAGACCATCACCCTTGAGGTGGAGCC
CAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAAGGCATTCCCCCGACCAGCAGAGGCTCAT
CTTTGCAGGCAAGCAGCTGGAAGATGGCCGTACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCCTGCACCT
GGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCCCTGGAAGTGGA
GCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAAGAAGGCATCCCTCCCGACCAGCAGAGGCT
CATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCCTGCA
CCTGGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACTCTGGAAGT
GGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCTCCCGACCAGCAGAG
GCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCCT
GCACCTGGTCCTGCGCCTGAGGGGTGGCTGTAAATTCTTCAGTCATGGCATTTCGCAGTGCCAGTGATGGCATT
CTCTGCACTATAGCCATTTGCCCCAACTTAAGTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAA
TGTTAATAAAGGTTTCGTTGCATGGTA

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FIGURE 4729

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRL
RGGC

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FIGURE 4730

AGGTAGGCTCTCTAGGAATCTGGGAGTAGTAGCTGGGGGGCAAGAGCAAATAAAGAGCTCGAGCTTCTGTGGTCT
CTGGGGAGATGTTCCCGGGAAGCCTGTCTAGAGGGCGGAGGGCAGCTGTTGAGATGGCGTGGCTCCCGGCTCCT
GCGCCCGCGTGGCTTTCGCGCGGGCGCTGCGGCCCCGTATTGGACAGCCTGGCAGGGCAGCGGGGGCCGAATC
CGGCTGCCGTGGCTGAGGCTCATGGATCACTCTTTTGTGGTAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAA
GGCCGGGACCCGTTCCCCGGCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGATTGCGTACCCACTGCAGA
GTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGA
GCCAGGAGCCTGCCATGAGGTTTTGAGAACAGAGTGCTGTTTATAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAA
GGTTATATTCCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAATACTGGCA
TCAACACTGGGTGTAGAAACATGCTTGCCTTATGTATCAGAGGACATGCTCAGCAGATCCAAGAGATATATTGG
CAACTTTTCTAGAAAAGGCACATTGGGTATCATTACATTCTTGAGT

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FIGURE 4731

MFPGSLSRGRRRAVEMAWLPGSCARVAFAGAAGAAARYWTAWQGSAGPNPAAVAEAGSLFCGRATSARAWSLRRPG
PGSPAHSGGVQTRENWIAYPQLQSAEDGVATRLQIREESASCLAAEYWSQEPAMRF

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FIGURE 4732

TCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACCATGACCACCTCCATCCGCCAGTTCACCTCCTCC
AGCTCCATCAAGGGCTCCTCTGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCAGCTGTCTGGCGGCCTGGGT
GCCGGCTCCTGCAGGCCGGGATCTGCTGGTGGCCTGGGCAGCGCCCTCGGGGGTAGCAGCTACTCCAGCTGCTAC
AGCTTTGGCTCTGGCGGTGGCTATGGCAGCAGCAGCTTTGAGGGCGTTGATGGGCTGCTGGTTCGGAGGTGAGAAG
GCCACCATGCAGAACCTCAATGACCGCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCGACACT
GAGCTGGAGGTAAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCCGCGCTGACTACAGCCAGTACTAC
AGGATAATCGAGGAGCTGCAGAACAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACATATTGAC
AATGCCCATCTGGCTGCTGCTGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGTGCCTGAGTGTGGAGGCC
GACATCAATGGCCCGTGCAGGGTGTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCACATTGAGAAC
CTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCCGCGAGGCCAGGTGGGCGGT
GAGATCAATGTGGAGATGGGCGCTGCCCCAGGTGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGAGCAGTAT
GAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAGCTGAACCGCGAG
GTGGCTACCAACAGTGAGCTGGTCCAGAGCGGCAAGAGCGAGATTTCCGAGCTCCGGTGCACCATGCAGGCCCTG
GAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGCTAC
TGCATGCAGCTGTCCCAGATCCAGGGGCTGATCGGCAGTGTGGAGGAGCGGCTGGCCCAGCTTCTCTGCGAGATG
GAGCAGCAGAACCAGGAGTACAAGATCCTCCTGGACATGAAGATGCGGCTGGAGCTGGAGATCACCACCTACCAC
CGCCTGCTGGAGGGCGAGGATGCCACCTGACTCAGTACAAGAAAGAACCAGGTGACCACCTGTGAGGTGCCTACC
ATTGTGGAAGAGGTCCAGGATGGTAAGGTCATCTCCTCCCGCAGCAGGTCCGCCAGACCACCCGCTTCAGCAGCTC
AGCTTTCTGGCCGGCCCCCAGGAGGCAGGGAGGCAGCGGTCCCATCTGCCCCGCGGTCTCCGGCCTCTCCACC
CTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCCTGCGTGATGACAATAAAGCTCGTTGACTCAGCT

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FIGURE 4733

MTTSIRQFTSSSSIKGSSGLGGSSRTSCQLSGGLGAGSCRPGSAGGLGSALGGSSYSSCYSFSGGGYGSSSFE
GVDGLLVGGEKATMQNLNDRLASYLDKVRALEEADTELEVKIRDWYQRQAPGPARDYSQYYRIIEELQNKILTAT
VDNANILLHIDNAHLAAADFRTKFETEALCLSVEADINGPCRVLDELTLARADLEMHIENLKEELAYLKKNHEE
EMNAPRGQVGGEINVEMGAAPGVDLRIINEMREQYKMAEKNRKAEDWFFSKTEELNREVATNSELVQSGKSE
ISELRCTMQALEIELOSQLSMKASLEGNAETENRYCMQLSQIQGLIGSVEERLAQLLCEMEQQNQYKILLDMK
MRLELEITTYHRLLEGEDAHLTQYKKEPVITCQVPTIVEEVQDGKVISSREQVRQTTR

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FIGURE 4734

CTTTCGCTCGGCTGTTTTCTGCTCAGGAGCCGCAGGGCCGTAGGCAGCCATGACGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCGGAAGATC
CGCAGACGTAAGGCCCCGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCATCCGGCCCATC
GTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTCAATCTGGAGGAGCTCAGGGTG
GCCGGCATTACACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCGAACGTGCAGCGGCTGAAGGAGTACCGCTCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCACCCAGCTGACCGGACCGGTATGCCCATCCGG
AATGTCCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAATAAAGCCCTCCTGGGGACTTGGAAT

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FIGURE 4735

GAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGGTGGCCACGTGGTTCAACCAGCCGGC
CCGGAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCAT
CCGGCCCCATCGTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGA
GCTCAGGGTGGCCGGCATTACAAGAAGGTGGCCCGGACCATCGGCATTCTGTGGATCCGAGGAGGCGGAACCA
AACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCAAGAAGGGAGACAGTTCTGCTGAAGAAGTGAAGTGGCCA
CCCAGCTGACCGGACCGGTGATGCCCATCCGGAATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAG
AGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATAAC

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FIGURE 4736

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKGPASQGAPHRSAAPRVGSHPAHRALPHGSVPHEGARRPR
LQPGGAPGWPAFTRRWPGPSAFLWIQTHPLPQEALGPQEGRQFC

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FIGURE 4737

GTAGAGTGC GCGACGCTTTTGGCGACCCGACCTCTGGCTAACCTACCCCCGAGCCATGGCCTCTGCTGGGGTGG
CAGCCGGGCGACAGGCGGAGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGC
CTCCTCAGCCGCGCCGGTCCCTGCGCCTCAACCGCAGCAGTCGCGGGCGCCACGGCCTCAGTCACCTGCCGCG
CGAGGGAGGAAGAGAACTACTCCTTTTTACCTTTGGTTCAACAATCATCAATGCATGGACAAGGACAGCCAG
AGGTCCACCAGGACCTGAACGCCCTCAAAAGCAAGTTCCAGGAGATGCGCAAGCTCATCAGCACCATGCCGGCA
TCCACCTGAGCCCCGAACAGCAGCAGCAGCTGCAGAGCCTCCGGGAGCAAGTCAGGACCAAGAATGAGCTTC
TGCAAAAGTACAAGAGCCTCTGCATGTTGAAATCCCCAAGGAGTAGAGTGAGGCTGACTTCCTTAGAAAGAGGG
GGAAGCCAATGGCCTGTCTCCCCACTACCATCCCCAACGCTCCTTGGGGCGTGGTTCTGTGGACCCAGCTCA
GCTCGTCAAGCTGCAGGGGCGGGGCTCCTGTGCTGCTGCGCGCGCTTCGCCTGTGCGGGAGCCAGCGCAGAGCTT
GGCTGCGCCGGGGGTTCTCGTGTAGATCCATATGTCTAGATGCATAATAACTGGAGTGCCTGCTGGTGGAAGTC
AGAATGCTCCTGGAGGCTGCAGAGGGGGTGGAGGACTCTCCCTGCGCTCTGGGGAGGGGGCCATCTGCTGCGCCC
GGCCCCACTGACAGATCTGAAGAGCACAGTAGGAAGGGAGGCGGCTCCTCTTTGCTTCCTTCCCTCTCTCTCTC
CCACCCCCATAGGATCAGTGTGTACCAGGTACACATTGTTCTGTTAACAGCAGCTTCTTGAAACATTTGCATAG
AATTCACTGGACGAATTAAGCCTGCACTCATATGGCATAGAATTGTGAGAGAATGTTTGAAGGCCAGAGGGTG
GCCTTTTTCCCCAAACAGTTTGGTTCCTTTTATGTTTGAGCCAGTGAAGGGAACCTACGCTTTGGGGGCTTCAGCC
TAGAGCCCTGCCAGGCAGCCCTGGCTCCAGGTTCCCTGCGCTCCTAGCGCTCTCCTGCGCTTCAGCTCTTGCTCC
CTTCCTCGTTCATCACCTCAGTCAGTGCCCAAGAGTGCCCAAACCGCTTCACATCTGCAGTGCCTCCCCAGGGT
TGACAAGGGGCGCTCCTTCCACACAGGCCAGAAGAGGTCTTCAGGCGAACCAGCTTCCCCCTTCTGGCATTTC
AGATTCCCCTTGCTCTGGTTAAAAGGTCTTCCCTCGTGGCCTTTGCACTTGCGGCAGCAACGTGTACTACACTG
CAGAAGGGTTCAGTATGCACCTTGTGTTGAGAGAGAGGCAACCCTGGGGGCCAGTTCAGGTGGTCCCCAACCAT
GGCTAGGTCTGAAAGTTACACAGCCAAGTTGAGCTCTTAAAAGTTGATGAACAGCCTCATTTCCCAGCTTCCC
TGATTTCTTCCAGATGGGACGTTTTATTTGTGTGCTCTCCCTTGACTGTGAGATTGAAGTAAGAGCAGTTCTCTC
CGTTGCCCTCTCGAGGAGGAGGTGCGAAGTCCTGGAGTATTGTTGGGTCTCGGAATGGGCGCATAACCTGCGCTG
ACCAGTTTAGGGGCTTAGCAGATGCCTGCCAGCTGACCTCGTTGGCAGGAGGGTTGGGTGGAGATGTTTTAGCA
GAGCTTCCATTAGTGTAGACCTGTAGCCACCTGTGAGAAGTGGGTGGCATATTGGGGACCTGGGAATGTGTGAA
GGAGGAGATCAAATTTAGTGCTTTTGACAGAAAAGAAGGCTCTGGATTTAAGCGGGTGGTCACCTGTGAGACC
AGGTCTACCTTGGGACTGTTATTTAACTGAATCAGTTATTTCCCTTGAAATTTACAGTAGTGGGTGGGCCTGTTT
TAAGGCTCTGACAGATACCACGAAACATGAAGCACGTGGAACACAGACCCCCGGGGTCTTTCTGAGTGCAAGG
CTGAAATGGACAAGGGCTCCTCACGGGGGTGGAGGGAGCCGAGCCTGCCTTGTTTCCTTTTTTGACTTGTGAC
ATTTTTCAAACACATAATTAAAGGACTTATGCTCTGCTGTCTCAGG

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FIGURE 4738

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIKC
MDKDSPEVHQDLNALKSKFQEMRKLISTMPGIHLSPEQQQQQLQSLREQVRTKNELLQKYKSLCMFEIPKE

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FIGURE 4739

GGGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCCATGGCCTCTGCTGGGGTGGCAGCCGGGCGACAGGCGG
AGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGCCTCCTCAGCCGCCGCCGG
TCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCCGCGCGAGGGAGGAAGAGA
ACTCCTTTTTACCTTTGGTTCACAACATCATCAAATGGTAAGAACCTAGGAGAGGACCAGGCCCCATACTCCCTC
CAGCTTCTCCTCTCAGCCGTTTCAGAGCTGCAAGAGGCCTTGGCGCTCTGGGGCACGCCCCGTTTCACAGATGG
GGAAACTCAGACCCAGAGCGGGAAGAGGCCTTTCCCAAGACCACAGAGACATTCCATGAGTTAAGCAAACGATTT
GAGCCTCGAGAGGTGCGATATCCTTAAGAATGAAGCCAGCTTAGAGACTAAATGCAGACTCTTGTCCAGCGGCTC
AAATGTTTCATCCAGCGATCTTGAGCAAATTAAATCTCTTAAAGCCGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4740

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPVPAPQPQQSPAPRPQSPARAREENYSFLPLVHNIKW

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FIGURE 4741

GCCCTGCCAGCCCCAGACAAGGGCACAGAAACAGCCAGGCCACACCACTACAGCAGCTATTCCAAGCGGAAGCG
CCTCACTCGGGGCGGGGCAAGAACACCACCTCTTCACCCTGTAAGGGGCGTGCCAAGCGACGACGACAGCAGCA
GGTGCTGCCCCCTGGATCCCGCAGAGCCTGAAATCCGCCTCAAGTACATTTCCTCTTGCAAGCGGCTGAGGTGAGA
CAGCCGGACCCCCGCTTCTCACCCTTCGTGCGGGTGGAGAAGCGAGACGCGTTACCACCATATGCACTGTTGT
CAACTCCCCTGGAGATGCGCCCAAGCCCCACAGGAAGCCTTCCTCCTCTGCCTCCTCTTCTCATCTCGTCTC
GTTCTCCTTGATGCAAGCGGGGCTCCCTGGCCACACTCCCTGGAGGCTCCATCTGCAGCCGCGGCCCTCCTT
GCCCCCTCTCTCCACGATGCACTTGGGGCTGTGTTTCCAAGGCCCTGAGTACCTCTTGCCCTGTTTGCTGCCT
CTGCCAAAACCCGGCCAACCTTCAAGGACCTTGGGGACCTCTGTGGGCCCTACTACCCTGAACACTGCCTCCCCAA
AAAGAAGCCAAAACCTCAAGGAGAAGGTGCGGCCAGAAGGCACCTGTGAGGAGGCTCGCTGCCGCTTGAGAGAAC
ACTCAAAGGTCCCGAGTGTGCACTGCGCCACTGCGGGGAAGCCCCCAGGCCTGACGGCCAGCTGACCCGGC
CAAGCAGGGCCCACTGCGCACCAAGTCCCGGGGCTGTCCCGAGGCTGCAGAGCTGCTACTGCTGTGATGGCCG
GGAGGATGGGGGCGAGGAGGCAGCCCCAGCCGACAAGGGTCGCAAACATGAGTGCAGCAAGGAGGCTCCGGCAGA
GCCCCGCGGGGAGGCCAGGAGCACTGGGTGCATGAGGCCTGTGCCGTGTGGACCGCGGCGTCTACCTGTTGGC
CGGGAAGCTCTTTGGGCTGCAGGAGGCCATGAAGGTGGCGTGGACATGATGTTCAGCTGCCAAGAAGCCGG
GGCCACCATTGGGTGCTGCCACAAAGGATGCCCTCCACACCTACCCTACCCGTGTGCCAGCGATGCAGGTTGCAT
ATTCATCGAAGAGAACTTTCTTTGAAATGTCCCAAACATAAGAGGCTGCCGTAGTAATCCACCCCAACGGCCGG
AGGAGCCGCGGAGCCCGCTGCCCGCCCGCCGGAAGGAGAGGAGCCGCTGCGCAGCCCCGGGCTTTGAG
CTGCTCCAGCGCTGGTCCAGAGCCGATCCTTGATCCGGGTCCCGGATCGTGGATCCGGCCGCTAGGGCTCAGA
CTTGCGGCCCCGGGTGGGAGGAAAACCCGTTCCGGAGCCGCTGCTCCCGGAACCGGACGGCACAGGGCGTTCT
TGCCCACCCCAGGGGCCAGGCTTGCGGAGGGGAGCCCGCGGAGCGGCCAGACTCCCCGGGGCGCTCAGCCTCCG
GCGAGGGTGGGAGACGGCTTTGTCTGGGGACACTTTCCCTCTGGAATCTCAAGACGACGTGGCACACATTCCAC
GTGGGTGCTGCCGCCACCCAGTCGGTCGTGGCGTGCAGCTGGGAGCCCTGGGCTTGGGGGTGGGGTGCAAACA
GTACTGGAAGAGGCGGAGGGCGGCTCCTAGCTCCGTGGACTAGGCGGGGAGAAAGGAAGCCTTCTGAGAGCGG
GCTAGGCCGGCACTGGAGAGCGCGGAGCCTTTGGAACAAACCGTGCGGAACGCTCCAGGGGCTTCCCGCCCAG
CCTTTGCCAGATCTCTCGTCCGTTCCGGCAAAGCCGGGTAGACCTGGGCTATGCTCAGTTAGGGGTGCGGGA
TCCCGAGTGTGGGCGGGACTGGGACACCCTTTGGCCTCTGTTGTGCCCTTTCCAGTCCTCCACCCACCCCTG
GAGCCAGCCTGGGAGCGCAAAACCAAGAAGCGGCCAGAACGCACCTCCGGCTCCGGCGGACGCGCGACCGTTG
TGCACCACAGGGACCGCCGCGCTACTCTGCACGGGAGCAGGGACAGCGCTAGATTTCTGTACAAAACCTGTG
TACCCCTCTATATATATGTTACATAGAATGTATATATGTTGGGAACATGCTCGCTTCTCCCGTGTGTCGCCGCCG
TGCGTCGTGCGCCCGCAACAGAGCCCCAACCGGGCCTTTGCCGGGTAAAGGGGTACCGCGACGCCACTTGTCCAC
GCAGCCACCACCGGCCCGGCCAGTCCCTGCCAGTCCGTCCGCTGTCCGTCCGTGCTCAGCTCTGTCCACGC
TTCGATAGGCCTGACGCAGCCCCAGCCAGGGCCGCCCTAGCAACTTCCTGTACATATGACTGTAAATGGTAA
ACGTGTGTATTATATCTGGCTCGTTATATAGTGTATATATATGTATACATATACATATATATATATATGAA
GACTGTAAATGTTAAGACGACTAGTGTTCTTATTAGTATATTGCTTCACACTGAAGATTGTGTGTATCGAGCTGT
TTCTAAAAGATGTTTATTTTCTTAAGAGTAAAAACAGTCATTGCATTTCAGAAAAAAGTCAA
TAAAGATACAACGATTGTTTGGAAAA

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FIGURE 4742A

TAACGAGGAAC TTTTCGCCGGCGCCGGGCGCCTCTGAGGCCAGGGCAGGACACGAACGCGCGGAGCGGCGGCGG
CGACTGAGAGCCGGGGCCGCGCGGCGCTCCCTAGGAAGGGCCGTACGAGGCGGCGGGCCGGCGGGCCTCCCGG
AGGAGGCGGCTGCGCCATGACGAGCCACCCTTCAGCGAGGCGGCTTTGGAGCAGGCGCTGGGCGAGCCGTGCGA
TCTGGACGCGGCGCTGCTGACCGACATCGAAGACATGCTTCAGCTTATCAACAACCAAGACAGTGACTTCCCTGG
CCTATTTGACCCACCCTATGCTGGGAGTGGGGCAGGGGGCACAGACCCTGCCAGCCCCGATACCAGCTCCCCAGG
CAGCTTGTCTCCACCTCCTGCCACATTGAGCTCCTCTCTTGAAGCCTTCCTGAGCGGGCCGAGGAGCGCCCTC
ACCCCTGTCCCCTCCCCAGCTGCACCCACTCCATTGAAGATGTACCCGTCATGCCCGCTTTCTCCCCTGGGCC
TGGTATCAAGGAAGAGTCAGTGCCACTGAGCATCCTGCAGACCCCCACCCACAGCCCCCTGCCAGGGGCCCTCCT
GCCACAGAGCTTCCCAGCCCCAGCCCCACCGCAGTTTCAGCTCCACCCCTGTGTTAGGCTACCCACGCCCTCCGGG
AGGCTTCTCTACAGGAAGCCCTCCCGGGAACACCCAGCAGCCGCTGCCTGGCCTGCCACTGGCTTCCCCGCCAGG
GGTCCCGCCCGTCTCCTTGACACCCAGGTCCAGAGTGTGGTCCCCCAGCAGCTACTGACAGTCACAGCTGCCCC
CACGGCAGCCCCGTGTAACGACCACTGTGACCTCGCAGATCCAGCAGGTCCCGGTCTGCTGCAGCCCCACTTCAT
CAAGGCAGACTCGCTGCTTCTGACAGCCATGAAGACAGACGGAGCCACTGTGAAGGCGGCAGGTCTCAGTCCCCT
GGTCTCTGGCACCCTGTGCAGACAGGGCCTTTGCCGACCCTGGTGAGTGGCGGAACCATCTTGGCAACAGTCCC
ACTGGTCGTAGATGCGGAGAAGCTGCCTATCAACCGGCTCGCAGCTGGCAGCAAGGCCCCGGCCTCTGCCAGAG
CCGTGGAGAGAAGCGCACAGCCACAACGCCATTGAGAAGCGTACCGCTCCTCCATCAATGACAAAATCATTGA
GCTCAAGGATCTGGTGGTGGGCACTGAGGCAAGCTGAATAAACTGCTGTCTTGCGAAGGCCATCGACTACAT
TCGCTTTCTGCAACACAGCAACCAGAACTCAAGCAGGAGAACCTAAGTCTGCGCACTGCTGTCCACAAAAGCAA
ATCTCTGAAGGATCTGGTGTGCGCCTGTGGCAGTGGAGGGAACACAGACGTGCTCATGGAGGGCGTGAAGACTGA
GGTGGAGGACACACTGACCCACCCCTCGGATGCTGGCTCACCTTTCCAGAGCAGCCCCCTGTCCCTTGGCAG
CAGGGGCAGTGGCAGCGGTGGCAGTGGCAGTACTCGGAGCCTGACAGCCAGTCTTTGAGGACAGCAAGGCAAA
GCCAGAGCAGCGGCCGTCTCTGCACAGCCGGGCGATGCTGGACCGCTCCCGCCTGGCCCTGTGCAGCTCGTCTT
CCTCTGCTGTCTGCAACCCCTTGGCCTCCTTGTCTGGGGGCCGGGGGCTTCCAGCCCCCTCAGATACCACCAG
CGTCTACCATAGCCCTGGGCGCAACGTGCTGGGCACCGAGAGCAGAGATGGCCCTGGCTGGGCCCAGTGGCTGCT
GCCCCAGTGGTCTGGCTGCTCAATGGGCTGTGGTGTCTGCTCCTTGGTGTCTCTCTTTGTCTACGGTGAGCC
AGTCACACGGCCCCACTCAGGCCCCGCCGTGACTTCTGGAGGCATCGCAAGCAGGCTGACCTGGACCTGGCCCG
GGGAGACTTTGCCCAGGCTGCCCAGCAGCTGTGGCTGGCCCTGCGGGCACTGGGCGGGCCCTGCCACCTCCCA
CCTGGACCTGGCTTGTAGCCTCCTCTGGAACCTCATCCGTACCTGCTGCAGCGTCTCTGGGTGGGCCGCTGGCT
GGCAGGCCGGGCAGGGGGCCTGCAGCAGGACTGTGCTCTGCGAGTGGATGCTAGCGCCAGCGCCGAGACGCAGC
CCTGGTCTACCATAGCTGCACCACTGACACCATGGGGAAGCACACAGGCGGGCACCTCACTGCCACCAACCT
GGCGCTGAGTGCCCTGAACCTGGCAGAGTGTGCAGGGGATGCCGTGTCTGTGGCGACGCTGGCCGAGATCTATGT
GGCGGCTGCATTGAGAGTGAAGACCAGTCTCCACGGGCCCTTGCAATTTCTGACACGCTTCTTCTGAGCAGTGC
CCGCCAGGCGCTGCCTGGCAGAGTGGCTCAGTGCTCCTGCCATGCAGTGGCTCTGCCACCCCGTGGGCCACCG
TTTCTTCTGTGATGGGGACTGGTCCGTGCTCAGTACCCCATGGGAGAGCCTGTACAGCTTGGCCGGGAACCCAGT
GGACCCCTGGCCAGGTGACTCAGCTATTCCGGGAACATCTCTTAGAGCGAGCACTGAACGTGTGTGACCCAGCC
CAACCCAGCCCTGGGTGAGCTGATGGGGAACAAGGAATTCTCGGATGCCCTCGGGTACCTGCAGCTGCTGAACAG
CTGTTCTGATGCTGCGGGGGCTCCTGCCTACAGCTTCTCCATCAGTTCAGCATGGCCACCACCACCGGCGTAGA
CCCGGTGGCCAAGTGGTGGGCCTCTCTGACAGCTGTGGTGATCCACTGGCTGCGGCGGGATGAGGAGGCGGCTGA
GCGGCTGTGCCCGCTGGTGGAGCACCTGCCCCGGGTGCTGCAGGAGTCTGAGAGACCCCTGCCAGGGCAGCTCT
GCACTCCTTCAAGGCTGCCCGGGCCCTGCTGGGCTGTGCCAAGGCAGAGTCTGGTCCAGCCAGCCTGACCATCTG
TGAGAAGGCCAGTGGGTACCTGCAGGACAGCCTGGCTACCACACCAGCCAGCAGCTCCATTGACAAGGCCGTGCA
GCTGTTCTGTGTGACCTGCTTCTTGTGGTGGCACCAGCCTGTGGCGGCAGCAGCAGCCCCGGCCCCGGCCCC
AGCAGCCAGGGCGCCAGCAGCAGGCCCCAGGCTTCCGCCCTTGAAGCTGCGTGGCTTCCAACGGGACCTGAGCAG
CCTGAGGCGGCTGGCACAGAGCTTCCGGCCCGCATGCGGAGGGTGTTCCTACATGAGGCCACGGCCCGGCTGAT
GGCGGGGGCCAGCCCCACACGGACACACCAGCTCCTCGACCGCAGTCTGAGGCGGCGGGCAGGCCCGGTGGCAA
AGGAGGCGCGGTGGCGGAGCTGGAGCCGCGGCCACGCGGCGGGAGCACGCGGAGGCCTTGTCTGTCCTCCTG
CTACCTGCCCCCGGCTTCTGTGCGCGCCCGGGCAGCGGTGGGCATGCTGGCTGAGGCGGCGCGCACACTCGA
GAAGCTTGGCGATCGCCGGCTGCTGCACGACTGTTCAGCAGATGCTCATGCGCCTGGGCGGTGGGACCACTGTCA

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FIGURE 4742B

TTCCAGCTAGACCCCGTGTCCTCCGGCCTCAGCACCCCTGTCTCTAGCCACTTTGGTCCCGTGCAGCTTCTGTCCT
GCGTCGAAGCTTTGAAGGCCGAAGGCAGTGCAAGAGACTCTGGCCTCCACAGTTCGACCTGCGGGCTGCTGTGTGC
CTTCGCGGTGGAAGGCCCCGAGGGGCGCGATCTTGACCCTAAGACCGGCGGCCATGATGGTGCTGACCTCTGGTGG
CCGATCGGGGCACTGCAGGGGCCGAGCCATTTGGGGGGCCCCCTCCTTGCTCTGCAGGCACCTTAGTGGCTTT
TTTCCTCCTGTGTACAGGGAAGAGAGGGGTACATTTCCCTGTGCTGACGGAAGCCAACTTGGCTTTCCCGGACTG
CAAGCAGGGCTCTGCCCCAGAGGCCTCTCTCTCCGTCGTGGGAGAGAGACGTGTACATAGTGTAGGTCAGCGTGC
TTAGCCTCCTGACCTGAGGCTCCTGTGCTACTTTGCCTTTTGCAAACCTTTATTTTCATAGATTGAGAAGTTTGT
ACAGAGAATTAAAAATGAAATTATTTATA.

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FIGURE 4743

MDEPPFSEAALEQALGEPCLDAALLTDIEDMLQLINNQSDSDFPGLFDPPYAGSGAGGTDPASPDITSSPGSLSP
PATLSSSLEAFLSGPQAAPSPSPQPAPTPLKMYPSMPAFSPGPGIKEESVPLSILQTPTPQPLPGALLPQSFP
APAPPQFSSTPVLGYSPPPGGFSTGSPPGNTQQPLPGLPLASPPGVPPVSLHTQVQSVVPPQQLLTVTAAPTAAPV
TTTITSQIQQVPVLLQPHFIKADSLLLTAMKTDGATVKAAGLSPLVSGTTVQTGPLPTLVSGGTILATVPLVVD
EKLPIINRLAAGSKAPASQSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQH
SNQKLQENLSLRTAVHKSLSKDLVSACGSGGNTDVLMEGVKTEVEDTLTPPPSDAGSPFQSSPLSLGSRGSGS
GGSGSDSEPDSPVFEDSKAKPEQRPSLHSRGM LDRSLALCTLVFLCLSCNPLASLLGARGLPSPSDTTSVYHSP
GRNVLGTESRDGPGWAQWLLPPVVWLLNGLLVLSLVLLFVYGEVTRPHSGPAVYFWRHRKQADLDLARGDFAQ
AAQQLWLALRALGRPLPTSHLDLACSLWNLIRHLLQRLWVGRWLAGRAGGLQQDCALRVDASASARDAALVYHK
LHQLHTMGKHTGGHLTATNLALSALNLAECAGDAVSATLAEIYVAAALRVKTS LPRALHFLTRFFLSSARQACL
AQSGSVPPAMQWLCHPVGHRFFVDGDWSVLSTPWESLYSLAGNPVDPLAQVTQLFREHLLERALNCVTQPNPSPG
SADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSMATTGVDPAKWWASLTAVVIHWLRRDEEAAERLCPL
VEHLPRVLQESERPLPRAALHSFKAARALLGCÁKAESGPASLTICEKASGYLQDSLATTPASSSIDKAVQLFLCD
LLLVRTSLWRQQQPPAPAPAAQGASSRPQASALELRGFQDRLSSLRRLAQSRPAMRRVFLHEATARLMAGASP
TRTHQLLDRSLRRRAGPGGKGGAVAELEPRPTRREHAEALLASCYLPPGFLSAPGQRVGMLAEAAARTLEKLGDR
RLLHDCQQMLMRLGGGTTVTSS

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FIGURE 4744

AGGTCGTTCGCGATGAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCTGACCAA
GATCTTCCACCCGAACTTGGGCGCCAATGGCGAGATGTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTGAGCT
GGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCGAGTCTGCACTCAACGAGGA
GGCGGGCCGCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACGGGGG
CGCCGGCGGGCCAGCGGCAGGGCCAAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCTCCACCGACTC
TGGGGCCCCAGGGGGCTTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGAAGCT
GGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTACGGCGGCTGTAGTGGGCTCTCTTCTCCTTCCACCGTG
ACCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGAGGGT
ACAGGGGGCACTGAGACCTGGATTTGTTTTTTAAATAAAGTTGGAAAAGCA

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FIGURE 4745

TTTCTCTGGAGGAGCTCCGCGGTGGCGAGTCTGTGTCTCTCCCTGTCCCCAGAGCAGAGAACCCTCTCTGTGTCT
TGGACCGGGGAGGAGCAGACGCTGGACAGGGTGTGTGTGTTTCAGCAGTGGATTGTCAGACTTGGGGTCCCGGCTG
CTCCCTTTTGGGTCTCTCCCCGGGCCCGCTGATCTGACTGTAATTCCTTCTGTCTGGAGCTAGGGTTCCGCCACCT
TGACGCGCCCCCTCTGCCCCGGAGCGTGTCTTTGGGTTTTGTGTGTGTGGGAGTGGGGTGTATGTGTGTTTCTT
ATCCGAGACACCTCCGGGTCGTTTGCTTGGAAACCGCTGAGGGCCCCGACAGCCTGGAGCATTGTTGGTGGAAAG
TGAGGCAGGTAGCGCCCAAGGCTCCTGTACCAGGGCCAGGTTAGGCACCAACGCGTCCCTTATGTCTCTGCAGCC
TGCAGTGTGGTGAACCGTTTTATAGACTGACAGTGTGAACGTGGGAGGGGATGGATATCAGAGACCCGTTTTATC
CACATTTTCAGAGAGTGGTATTGCTCCGATGTGAGTGTAGGCAGGTTACTCTCTGTGTCTCGTGTCTTTACCTG
TAATTTGAGGTTTGTGTACTACTTTTTAAGTGGTGGTTGTGAGGATTAAATGGAATTTTGACATGCAACAGTTG
ACACAGGGCCAGACACCAAGTAAGGGATCAATCAGTTGTTGCTTTTATTAATAGTAGGCATCCATCTGCCACTT
GTACGTAAGAAGGAAACACCCAAGAATGAAAAGTAGCTTGTGTAGGTACCCAGCCAAGTAGCACATAGGGGAA
ATTAGAATCCAGGCACTCCAGCAGGGCACTTTCCACCACCTGCAGTTTGTATTTCATCAGGCACAATATCCTT
ACTGTTGTCTGTAAGTGTCTATGTTCCAGTGTCTGACTCTGCAGGGCCCTGGTGGTATAAAGGTACTGAGACTT
GCCTGTGTTTAGGGCTTCTGAAGATTAAATGGCTGTGAAGTTCTTGAGTTTAGCTTTAGCTCAAAAGATACTG
CGTCAGACTCTGCGTTCTGAGTAGAGTCTCAGACAATGAAAAAGAAATACAATGAAAAAGGGGAAAACCTCAAT
CCAGAATCTCTTGCCACAGTTTTTGGCAGAATGCTGGCAATCCCAGGAAGATATGTGGAGAACGGAAAGGTTGC
TACACCCAAATAGTGGCGCAAAGGCTATGATTATGGAGGATTGGACCTGCAACTCCAGAACAGAGTTCTGCCCT
CTGAGGACCTGCCCTTTCCCAAAGGGGTATCTTAAGAAGGAAAATATGGCTGCTCTTTGCCGGACAGCAGAGT
CCCAGAGGCTGAAGTCCAGTGCACCCAGTTAGACTTGGAGCGGAACTCAAGTTGAATGAAAATGCCATCTCCAG
GCTCCAGGCTAACCAAAAGTCTGTTCTGGTGTGCGGTGTGAGAGTCAAAGCAGTGGCTGAAATGCAGTTTGGGGA
ACTCCTTGCTGCTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAG
CCAGGCCAACGGTATCAAGGCCACCTGGAGTACAGGAGTCCGAGATGGAGAAGAGTAAGCAGGAGCTGGAGAC
GATGGCGGCCATCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTT
CCCTAGTGTTCATAGGGCTGAAGGATAAAGTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTT
AATCCAGTTGCTGGAGAAGTATAAGAAAAAGTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCA
AGTGTCTGCCATTGTTTCAGCGCAAATATTGGACTTCCAAACCTGAGCCCAGCACCAGGGAACAGTTCTTCCAATA
TGTGCATGACATCACGTTTCAGCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTAC
CAACACCACGCCCTGGGAGCATCCCTACCCGGACCTCCCAGCAGGTTCTGCACTGGCGGCAGGTGCTGTCCCA
GCAGAGTCTGTACCTGCACAGGTAATTTTGGAGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTG
CAAAGGCATCGACCAGAAAGGGGAGGAGCGCAGCAGTTGCATTTCGGAAACAACCTCTCCTGGAGCCTCCAATG
GAACGGGAAGGAGTTACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCTGGAGGCTCGG
GGTCTATATTGACTTCCCAGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATTCCATGACTCTGGTTCACAA
GTTTGGCTGCAAGTTTTTCAAGCAGTCTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGT
AGATCTGGGAGAGGAACCCGAGAAGCCAGCACCGTCTTGGTGGGACTGCTCCCTAGACTCCAGGAGCCATATC
CCAGACCTTTGCCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTGGGGGCAAAAATAACTGCTGATGGTA
GCTGGCTTTTGAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCT
GTTCTCTATGTGTTTGAGTAATCTTTTTTTTTTTTTTTTGTAGACGGAGTCTCGCACTGTTGCCAGGCTGGA
GTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTCCGCTCCCGAGTTCAAGCAATCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGATTACAGGTGCCTGCCACCACACCCAGCTAACGTTTGTATTTTAGTAGAGATGGGGTTTCACC
ATGTTGGCCAGGCAGATCTCAAACCTCTGACCTCGTGATGCACTCACCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCGCCCTGCTGTTTGTAGTAATTTTAGGCACCAATCTCCCTCATCTTCTAGTGCCATTCT
TCTCTCTGTTTCAAGTAAATGTCACACTGTGCCAGAATGGATGACCAGGAACCTTCAAGAGTGGCTGAAAAGAT
TGCAGAGTTATCATAATAAATTGCTAAGTGGTATTTCCT

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FIGURE 4746

MQFGELLA AVRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSQLEETMAAISNTVQFLEEYCKFKNT
EDITFPSVYIGLKD KLSGIRKVITESTVHLIQ LLENYKKKLQEF SKEEYDIRTQVSAIVQRKYWTSKPEPSTRE
QFLQYVHDITFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYFFEVEIFGAGTY
VGLTCKGIDQKGEERSSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFWR LGVYIDFPGGILSFYGV EYDSM
TLVHKFACKFSEPVYAAF WLSKKENAIRIVDLGEEPEKPAPSLVGTAP

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FIGURE 4747

ACTGCCGGCCTGCGCGGTACTCACTGCCGGCCTCCGCGGTACCCACTGCCGGCCTCCGCGCTACCCGGCCGCAGC
GCGCGAGTCACATGGAAGCTCCTGAGGAGCCCGCGCCAGTGC GCGGAGGCCCGGAGGCCACCCTTGAGGTCCGTG
GGTCGCGCTGCTTGCGGCTGTCCGCCTTCCGAGAAGAGCTGCGGGCGCTCTTGCTCTGGCTGGCCCCGCGTTCT
TGGTTCAGCTGATGGTGTTCCTGATCAGCTTCATAAGCTCCGTGTCTGTGGCCACCTGGGCAAGCTGGAGCTGG
ATGCAGTCACGCTGGCAATCGCGGTTATCAATGTCAGTGGTGTCTCAGTGGGATTCCGCTTATCTTCTGCCTGTG
ACACCCTCATCTCCAGACGTACGGGAGCCAGAACCTGAAGCACGTGGGCGTGATCCTGCAGCGAGTGCCTCG
TCCTGCTCCTCTGCTGCTTCCCTGTGCGGCGCTCTTCTCAACACCCAGCACATCCTGCTGCTCTTCAGGCAGG
ACCCAGATGTGTCCAGGCTTACCCAGACCTATGTCAGATCTTCATTCCAGCTCTTCTGCAACCTTTCTTTATA
TGTTACAAGTTAAATATTTGCTCAACCAGGGAATGTACTGCCCCAGATCGTAAGTGGAGTTGCAGCCAACTTG
TCAATGCCCTCGCCAACTATCTGTTTCTCCATCAACTGCATCTTGGGGTGATAGGCTCTGCACTGGCAAACCTTGA
TTTCCAGTACACCCTGGCTCTACTCCTCTTCTCTACATCCTCGGAAAAAACTGCATCAAGCTACATGGGGAG
GCTGGTCCCTCGAGTGCCTGCAGGACTGGGCCTCCTTCTCCGCTGGCCATCCCAGCATGCTCATGTGTGCA
TGGAGTGGTGGGCTATGAGTGGGAGCTTCTCAGTGGCATCTCGGCATGGTGGAGCTGGGCGCTCAGTCCA
TCGTGTATGAACTGGCCATCATTGTGTACATGGTCTTGCAGGCTTCAGTGTGGCTGCCAGTGTCCGGGTAGGAA
ACGCTCTGGGTGCTGGAGACATGGAGCAGGCACGGAAGTCTCTACCGTTTCCCTGCTGATTACAGTGTCTTTG
CTGTAGCCTTCAGTGTCTGCTGTTAAGCTGTAAGGATCACGTGGGGTACATTTTTACTACCGACCGAGACATCA
TTAATCTGGTGGCTCAGGTGGTTCCAATTTATGTGTTTCCACCTCTTGAAGCTCTGCTTGCACGAGTGGTG
GTGTTCTGAGGGGGAGTGGAAATCAGAAGGTTGGAGCCATTGTGAATACCATTGGGTACTATGTGGTTGGCCTCC
CCATCGGGATCGCGCTGATGTTGCAACCACACTTGGAGTGATGGGTCTGTGGTCAGGATCATCATCTGTACAG
TCTTTCAAGCTGTGTGTTTTCTAGGCTTTATTATTACGCTAAATTGAAAAAAGCCTGTCAGCAGGCTCAGGTAC
ACGCCAATTTGAAAGTAAACAACGTGCCTCGGAGTGGGAATTCTGCTCTCCCTCAGGATCCGCTTCACCCAGGGT
GCCCTGAAAACCTTGAAGGAATTTTAACGAACGATGTTGGAAAGACAGGCGAGCCTCAGTCAGATCAGCAGATGC
GCCAAGAAGAACCTTTGCCGGAACATCCACAGGACGGCGCTAAATTTGTCCAGGAAACAGCTGGTGCTGCGCGAG
GGCTTCTGCTCCTGGGGGTCTTCTTAATCTTGCTGGTGGGGATTTTAGTGAGATTCTATGTCAGAATTCAGTGAC
GTGGTAGGAAAGAAAGTCAGGTGCGAGTGATGCTTTTGAGCTTACACACAATTCACAGGCCCACCAGTGACAATTT
ACTGTGAGTTAATGTCAATTCAGGTGTGCCCATGGATTTTGAGGGCTGGAAATGCAAAGACACATTTTTCTATAAA
AAGAAAAAGCAACTAAGGTTAAAAGCTATATTGTGGCCCAAGACACTGTCTGAAAGATGACATGAGTAGTAATTC
ACCACTATCTGAACCAAGCAAGGATCAATGTGCTGACTGCATTGGCCAATGGCTTTGATACTTCTGCTATTTTTT
TAGACACAAACCCATAAACTAAGCTTAAAGAATTCATACTGCTTGAATTATGTAAATATATTTTTACAGTATAT
CTTTCCTTGGGCCTTAGATTACTATTCACTGGGCAAATGGTATTTGTTTTGTTTTAATTTTTTTTTTAATAGAC
GGAAGTCTTGCTCTGTGCATGCAGGCTGGAGTGGGTGGTGCGATCATAGCTCACTGCAGCCTCGAATCTTGGGC
TTCAAGCAATCCTCCTGTGTGAGCCACCAGAGTAGCTGAGACTACAGGGGTATGCCACCATGCCAGCTGGCATT
TGTTAATCTTCATTGAGGTCTAGATCTAGGCACTGTGGACACTGAAAAACAGTTGGGAAATCTTTCGAGCTGTG
GAAATCCAAACAAAGACTGATAATTCCTGGTAGGGGTGTGTGCGTGACGTACTGCAGCCTCAACCTCCTGGGCTC
AAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGAGACCACAGGCGTGTGCCACCACGCTAGCTAATTTTTTA
TACCAGGGTCTACCTTTGTTTCCAGGCTGGTCTTGAATTCCTGGGATCAAGCAATCCTTCCACCTTGCCCTCC
CAAAGTGTGGGATTATAGGCATGAGCCACCAGCTGGCCAGAGGACAAAATTTTAATAAAGGTCTTAGCTTAA
GCAGTAATCCTACTTCATTAAGCCTTCCTGGGGTGGGTACACACCGTTAATTCAGCAACCCTCAGTACATACTA
AGTATGCTCAGTGTGTGAAAGTGGATTACACCAATTAAGTCATTCTTATCACACCCAATCAAAGTCAAGAAG
CCAGGGATAAAAGCACCTCAGGCACATAACATTAATCTAGTAATGTAATCTCTGCACATCCAGCTGGTGAAACT
GCGTGTGTGAAGCTGGGACCAGCTTTGTCCATACTGCTGAGAGAACTGCTGAAGCTCTAGGAATAATTTGCC
TGCCCGGTTGCTCACCAGTTGTAGCTTGCCAGCTCCCAACACCCTTCTGGTGCCAATAAACTTTCTCAAAGAGC
AATACTGACATTTCTTTTGATAAAACCTCCAGCCTTCTGTGTGTTGTTCCGACATACCGAGGACCAACTGGTCTA
CATGGATGCCCTGAACATGCAATCTTTCTTCCAAAATAAAACATTAAATAGAG

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FIGURE 4748

MEAPEEPAPVRGGPEATLEVGRSCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISSVFCGHLGKLELDAVT
LAIIVINVTGVSVGFLSSACDTLISQTYGSQNLKHVGILQRSALVLLCCFPCWALFLNTQHILLFRQDPDV
SRLTQTYVTIFIPALPATFLYMLQVKYLLNQGIVLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQY
TLALLFLYILGKKLHQATWGGWSLECLQDWASFLRLAIP SMLMLCMEWWAYEVGSFLSGILGMVELGAQSIVYE
LAIIVYMLAGFSVAASVRVGNALGAGDMEQARKSSTVSLITVLFVAVFSVLLSCKDHVGYIFTTDRDIINLV
AQVVPYAVSHLFEALACTSGGVLRGSGNQKVGAIVNTIGYYVVGLPIGIALMFATTLGVMGLWSGIIICTVFQA
VCFLGFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPOSDQOMRQEE
PLPEHPQDGAKLSRKQLVLRRLGLLLGVFLILLVGILVRFYVRIQ

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FIGURE 4749

CTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTGCTTCTCTCCACGCCCCCGTGTG
CCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAGAGGTTTTGCCTTCAGCAACCCCTGGACTGTGACGACA
TCTATGCCCAGGGCTACCACTCAGACGGCGTGACCTCATCTACCCCTCGGGCCCCAGTGTGCCTGTGCCCGTCT
TCTGTGACATGACCACCGAGGGCGGGAAGTGGACGTTTTCCAGAAGAGATTCAATGGCTCAGTAAGTTTCTTCC
GCGGCTGGAATGACTACAAGCTGGGCTTCGGCCGTGCTGATGGAGAGTACTGGCTGGGGCTGCAGAACATGCACC
TCCTGACACTGAAGCAGAAGTATGAGCTGCGAGTGGACTTGGAGGACTTTGAGAACAACACGGCCTATGCCAAGT
ACGCTGACTTCTCCATCTCCCCGAACGCGGTGAGCGCAGAGGAGGATGGCTACACCCTCTTTGTGGCAGGCTTTG
AGGATGGCGGGGAGGTGACTCCCTGTCTACCACAGTGGCCAGAAGTTCTCTACCTTCGACCGGGACCAGGACC
TCTTTGTGCAGAACTGCGCAGCTCTCTCCTCAGGAGCCTTCTGGTTCCGCAGCTGCCACTTTGCCAACCTCAATG
GCTTCTACCTAGGTGGCTCCCACCTCTCTTATGCCAATGGCATCAACTGGGCCCAGTGGGAAGGGCTTCTACTACT
CCCTCAAACGCACTGAGATGAAAATCCGCCGGGCTGAAGGGCTGGCCCCCTCAGGCACCTTCTCTCCCTGGAC
ACCCATGGTCTCCATGAGTGTCTCCCTGTCTGCCCTGATGCATGCTTCTGCTGATTCCCGAGCACCAACTCCTT
ACAAGGGGGCCTTGTGGCTCTCAGCCATGCCACATCCCTGTACACACCCAGGGCATCCATTCTTAAGCCAGACC
CGGCTCCCCCTACACCTGAAGTTACACTGCCAGCAGTTCCCCAGGCCTTCTCCGAGAGGCACATGGTTCTAGCCTG
GACCTGGCTGGGCTCCATGAGAATGAGTTGCCTCCACCCTGTCCCAACAGCTGACAGCCAGGAGCCACTCTCCCA
GCTGCAGGCCCTTGTGGTCCATCTTGTCTGCTTCTCTACTGTGGACCCCTGTCTGGGCCACCCTAGTGTGCTAA
GCTGAGCAGTGCAGTGTGAACAGGGCCCATGGTGTATTCTAGGCCACAGCCCAGCACTCCTCTGGGCTGCTCTCA
AACCATGTCCCATCTTCAGCATCCCTCCACCAACTTACTCCCCTGTGGTGAGTACCGTGAACCCCAGCCCACC
TCACTATCATACTCAGCTTCCCCTGATGGGCCATCCAGCCCCTGAAGCTCTATGCCAAGAACACAGCTACCGCA
CACCACCCTGAAACAGCCACAGCCAAGGTAGGCATGCATATGAGGTCTTCCCCATACCCTCTGGGTGTTGAGAGG
TTTAGCCACATGAGGGAGCAGAGGACAATCTCTGCAGGGCTGGGAGTGGGTAGGGACTGAAGGTCTCAATAAACC
TTCAGAACCTGAATGAACTGGCTTCATACACACAAACATATTTGTTTATCCCCCAAATGTAGGCACCTGGCTCCT
CCTTGCTCCCCCTGCTGATGGTGTCTTACCCCGAACTCCAAAAATTACACCTGGAGTCAGGTGCAGAAGGGAACCT
TGATTTTACAGGCCTCATTTTGTATGGCAAAAAGACAGTGTAAATAATA

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FIGURE 4750

CGGAGACCCCCGCGCTGGGGACGGGAGGCCGGCGAGCCTCGGGACCTCTGAAAGCCTTGAGGAGGCGCGGGGACA
CCATGGCCGAGCCTCTGAAGGAGGAAGACGGCGAGGACGGCTCTGCGGAGCCCCCGGGCCCGTGAAGGCCGAAC
CCGCCCACACCGCTGCCICTGTAGCGGCCAAGAACCTGGCCCTGCTTAAAGCCCGCTCCTTCGATGTGACCTTTG
ACGTGGGCGACGAGTACGAGATCATCGAGACCATAGGCAACGGGGCCTATGGAGTGGTGTCTCCGCCCGCCGCC
GCCTCACC GGCCAGCAGGTGGCCATCAAAAAGATCCCTAATGCTTTCGATGTGGTGACCAATGCCAAGCGGACCC
TCAGGGAGCTGAAGATCCTCAAGCACTTTAAACACGACAACATCATGCCATCAAGGACATCCTGAGGCCCCACCG
TGCCCTATGGCGAATTCAAATCTGTCTACGTGGTCTGGACCTGATGGAAGCGACCTGCACCAGATCATCCACT
CCTCACAGCCCCCTCACACTGGAACACGTGCGCTACTTCTGTACCAACTGCTGCGGGGCCTGAAGTACATGCACT
CGGCTCAGGTTCATCCACCGTGACCTGAAGCCCTCCAACCTATTGGTGAATGAGAACTGTGAGCTCAAGATTGGTG
ACTTTGGTATGGCTCGTGGCCTGTGCACCTCGCCCGCTGAACATCAGTACTTCATGACTGAGTATGTGGCCACGC
GCTGGTACCGTGCGCCCGAGCTCATGCTCTCTTTGCAATAGTATACACAGGCTATTGACCTCTGGTCTGTGGGCT
GCATCTTTGGTGAGATGCTGCCCCGGCGCCAGCTCTTCCAGGCAAAAACCTATGTACACCAGCTACAGCTCATCA
TGATGGTGTCTGGGTACCCCATCACCAGCCGTGATTCAGGCTGTGGGGGCTGAGAGGGTGCGGGCCTATATCCAGA
GCTTGCCACCACGCCAGCCTGTGCCCTGGGAGACAGTGTACCCAGGTGCCGACCGCCAGGCCCTATCACTGCTGG
GTCGATGCTGCGTTTTGAGCCAGCGCTCGCATCTCAGCAGCTGCTGCCCTTCGCCACCCCTTCTCGGCCAAGT
ACCATGATCCTGATGATGAGCCTGACTGTGCCCCGCCCTTTGACTTTGCCTTTGACCGCGAAGCCCTCACTCGGG
AGCGCATTAAGGAGGCCATTGTGGCTGAAATTGAGGACTTCCATGCAAGGCGTGAGGGCATCCGCCAACAGATCC
GCTTCCAGCCTTCTCTACAGCCTGTGGCTAGTGAGCCTGGCTGTCCAGATGTGAAATGCCAGTCCCTGGGCTC
CCAGTGGGGACTGTGCCATGGAGTCTCCACCACAGCCCCGCCACCATGCCCGGCCCTGCACCTGACACCATTG
ATCTGACCCTGCAGCCACCTCCACCAGTCAGTGAGCCTGCCCCACCAAAGAAAGATGGTGCCATCTCAGACAATA
CTAAGGCTGCCCTTAAAGCTGCCCTGCTCAAGTCTTTGAGGAGCCGGCTCAGAGATGGCCCCAGCGCACCCCTGG
AGGCTCCTGAGCCTCGGAAGCCGGTGACAGCCAGGAGCGCCAGCGGGAGCGGGAGGAGAAGCGCGGAGGCGGC
AAGAACGAGCCAAGGAGCGGGAGAAACGGCGGCAGGAGCGGGAGCGAAAGGAACGGGGGGCTGGGGCCTCTGGGG
GCCCCCTCACTGACCCCTTGGCTGGACTAGTGCTCAGTGACAATGACAGAAGCCTGTTGGAACGCTGGACTCGAA
TGGCCCGGCCCGCAGCCCCAGCCCTCACCTCTGTGCCGGCCCCCTGCCCCAGCGCCAACGCCAACCCCAACCCAG
TCCAACCTACCAGTCTCTCCTCTGGCCCTGTAGCCAGCCCACTGGCCCCGCAACCACAATCTGCGGGCTCTACCT
CTGGCCCTGTACCCAGCCTGCCTGCCCAACCCCTGGCCCTGCACCCCAACCCCACTGGCCCTCCTGGGCCCATCC
CTGTCCCGCGCCACCCAGATTGCCACCTCCACCAGCCTCCTGGCTGCCCAGTCACTTGTGCCACCCCTGGGC
TGCCCTGGCTCCAGCACCCAGGAGTTTTCCTTACTTCCACCTGGCCTGCCGCCCCAGACGCCGGGGGAGCCC
CTCAGTCTTCCATGTCAAGTACCTGATGTCAACCTTGTGACCCAGCAGCTATCTAAGTCACAGGTGGAGGACC
CCCTGCCCCCTGTGTTCTCAGGCACACCAAAGGGCAGTGGGGCTGGCTACGGTGTGGCTTTGACCTGGAGGAAT
TCTTAAACCAGTCTTTGACATGGGCGTGGCTGATGGGCCACAGGATGGCCAGGCAGATTGAGCCTCTCTCTCAG
CCTCCCTGCTTGTGACTGGCTCGAAGGCCATGGCATGAACCTGCCGATATTGAGTCCCTGCAGCGTGAGATCC
AGATGGACTCCCAATGCTGCTGGCTGACCTGCCTGACCTCCAGGACCCCTGAGGCCCCCAGCCTGTGCCCTTGT
GCCACAGTAGACCTAGTTCCAGGATCCATGGGAGCATTCTCAAAGGCTTTAGCCCTGGACCCAGCAGGTGAGGCT
CGGCTTGGATTATTCTGCAGGTTTCTCAGACCCACCTTTCAGCCTTAAGCAGCCACCTGAGCCACCACCGAGC
CATGGCAGGATCGGGAGACCCCAACTCCCCCTGAACAATCCTTTTCAGTATTATATTTTATTATTATTATGTTA
TTATTACACTGTCTTTTGGCATCAAAATGAGGCCTGTGAAATACAAGGTT

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FIGURE 4751

CCAGGAGCCCCAGTTACCGGGAGAGGCTGTGTCAAAGGCGCCATGAGCAAGATCAGCGAGGCCGTGAAGCGCGCC
CGCGCCGCCTTCAGCTCGGGCAGGACCCGTCCGCTGCAGTTCCGGATCCAGCAGCTGGAGGCGCTGCAGCGCCTG
ATCCAGGAGCAGGAGCAGGAGCTGGTGGGCGCGCTGGCCGCAGACCTGCACAAGAATGAATGGAACGCCTACTAT
GAGGAGGTGGTGTACGTCTAGAGGAGATCGAGTACATGATCCAGAAGCTCCCTGAGTGGGCCGCGGATGAGCCC
GTGGAGAAGACGCCCCAGACTCAGCAGGACGAGCTCTACATCCACTCGGAGCCACTGGGCGTGGTCTCGTCATT
GGCACCTGGAAC TACCCCTTCAACCTCACCATCCAGCCCATGGTGGGCGCCATCGCTGCAGGGAAC TCA GTGGTC
CTCAAGCCCTCGGAGCTGAGTGAGAACATGGCGAGCCTGTGGCTACCATCATCCCCAGTACCTGGACAAGGAT
CTGTACCCAGTAATCAATGGGGGTGTCCCTGAGACCACGGAGCTGCTCAAGGAGAGGTTTCGACCATATCCTGTAC
ACGGGCAGCACGGGGGTGGGGAAGATCATCATGACGGCTGTGCCAAGCACCTGACCCCTGTACGCTGGAGCTG
GGAGGGAAGAGTCCCTGTACGTGGACAAGAACTGTGACCTGGACGTGGCCTGCCGACGCATCGCCTGGGGGAAA
TTCATGAACAGTGGCCAGACCTGCGTGGCCCTGACTACATCCTCTGTGACCCCTCGATCCAGAACC AAATTGTG
GAGAAGCTCAAGAAGTCACTGAAAGAGTTCTACGGGGAAGATGCTAAGAAATCCCGGACTATGGAAGAATCATT
AGTGCCCGGCACTTCCAGAGGGTGATGGGCCTGATTGAGGGCCAGAAGGTGGCTTATGGGGGCACCGGGGATGCC
GCCACTCGCTACATAGCCCCCACCATCCTCAGGACGTGGACCCCACTCCCGGTGATGCAAGAGGAGATCTTC
GGGCTGTGCTGCCCATCGTGTGCGTGCAGCCTGGAGGAGGCCATCCAGTTCATCAACCAGCGTGAGAAGCCC
CTGGCCCTCTACATGTTCTCCAGCAACGACAAGGTGATTAAGAAGATGATTGCAGAGACATCCAGTGGTGGGGTG
GCGGCCAACGATGTCATCGTCCACATCACCTTGCACTCTCTGCCCTTCGGGGGCGTGGGGAACAGCGGCATGGGA
TCCTACCATGGCAAGAAGAGCTTCGAGACTTCTCTCACCGCCGCTCTTGCCCTGGTGAGGCCTCTGATGAATGAT
GAAGGCCTGAAGGTCAGATACCCCCGAGCCCGGCCAAGATGACCCAGCACTGAGGAGGGGTTGCTCCGCCTGGC
CTGGCCATACTGTGTCCTATCGGAGTGCGGACCACCCTCACTGGCTCTCCTGGCCCTGGGAGAATCGCTCCTGCA
GCCCCAGCCCAGCCCCACTCCTCTGCTGACCTGCTGACCTGTGCACACCCCACTCCACATGGGCCCAGGCCTCA
CCATTCCAAGTCTCCACCCCTTTCTAGACCAATAAAGAGACGAATACAATTTCTAACTC

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FIGURE 4752A

AACTGGAAGGCGCCCGGTCTTTCTTTGACTGGAGCGGACCCGCCGGACGCAACCGCCTCGCCAGCCGGAGCCAG
CGCGAGCTCGGCACGGTGGACACCCGGTCCGAGGCCGCAAGCCGGCTGGTGCCCGAGTCGGCCAAGCATGGGCA
ACCACTCAGGACGGCCCCGAGGATCCGGAACCAGGGGCCCTTTACAACAATAAACGGACAGGCATTCCAGCCCCAC
GGGAATTTTTCAGTAAGTGTCTCAAGAGAGAGGTCTGTGCCACGTGGTCCCTCCAACCCAGGAAATCAGTGTCCA
GTCCAACCTTCTTCCAACACTCCCACTCCTACGAAACCTGAGGACCCCTTCCACAAAGCCCAAGCAAGAGAATG
AAGGTGGAGAAAAGGCTGCGCTTGTAGTCCCAAGTTCGGGAACCTTTTGGCAGAAGCCAAAGCAAAAGATAGTAA
TTAACAGGCTTCGAAGTGAATAAAGAAATACAAAGAGAAAAGGACTCTGAACGCTGAGGGGACTGATGCTTTGG
GCCCCAATGTCTGATGGAACATCAGTCTCCCCAGGTGACACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACA
AGAACTTTTCAGAAAGAGCTTTCCGATCTAGAGGAAGAAAACCGGGTCTGAAGGAGAACTGATCTATCTTGAGC
ACTCCCCAAATTCAGAAGGGGCAGCAAGTCACACTGGCGACAGCAGCTGCCCCAATCCATAACTCAAGAGTCAA
GCTTCGGAAGCCCAACTGGAATCAGATGTCCAGTGACATTGATGAGTATAAAAAAACATACATGGAATGCAT
TACGGACATCAGGCTCCTCAAGTAGCGATGTTACCAAAGCTTCTTTGTGCCAGATGCTTCCGACTTTGAGCACA
TTACAGCAGAGACACCCCTCAAGGCCCCGTGCTCCACCAGTAACCCCTTAAGAGTTCAAAGTGTCTACTGCTG
GGAGTTCCCCAAAACAGCGTAAGTGAATTGTCCCTGGCTTCCCTCACAGAGAAGATACAAAGATGGAAGAAAACC
ACCATAGCACTGCAGAAGAACTACAGGCTACTCTACAAGAATTATCAGACCAGCAACAAATGGTACAGGAATTGA
CAGCTGAAATGAGAAGCTGGTGGATGAAAAGACGATTTTAGAGACATCCTTTCATCAGCATCGAGAGAGGGCAG
AGCAGCTAAGTCAAGAAAATGAGAAGCTGATGAATCTTTTACAAGAGCGAGTAAAGAATGAAGAGCCCACTC
AGGAAGGAAAATATTGAAGTGGAGCAGAAGTGCACAGGTATTCTTGAACAGGGCCGCTTTGAAAGAGAGAAGC
TACTCAACATTCAGCAGCAGTTGACCTGTAGCTTGCAGGAAGGTTGAGGAAGAAAACCAAGGAGCTTTAGAAATGA
TTAAACGTCTGAAGGAAGAAAATGAAAACTGAATGAGTTTCTAGAACTGGAACGGCATAATAATAACATGATGG
CCAAACTTTTGAAGAGTGTAGAGTTACCTTGGAGGGCTAAAAATGGAGAATGGATCTTTGAAGTCTCATTTGC
AGGGTGAGAAGCAGAAAGCCACAGAGGCCAGTGTGTGGAGCAGACGGCAGAGAGCTGCGAAGTTCAAGAAATGT
TGAAAGTAGCCCGAGCAGAGAAAGATCTACTGGAAGTGTCTTGCATGAGCTCAGACAAGAATTACTAAAGGCAA
ACGGTGAAATTAACATGTTTCCAGTCTGCTGGCCAAGGTGGAAAAGGATTATTCATACCTGAAGGAGATATGTG
ATCACCAGCCGAACAGCTGAGCAGAACCAGCCTAAAGCTGCAAGAAAAAGCATCAGAGAGTGATGCAGAGATCA
AAGACATGAAAGAAACCATATTGAAATTGGAAGATCAGGTGGAACAGCACCGGGCTGTCAAGTTACACAATAATC
AACTCATCAGTGAGCTAGAAAGTAGTGTGATCAAGCTGGAGGAACAGAAGTCAGACCTGGAGAGGCAGCTGAAGA
CTCTGACCAAGCAGATGAAGGAGGAGACCGAGGAATGGAGGCGGTTCCAGGCGGATCTGCAGACCGCAGTGGTGG
TGGCCAATGACATCAAGTGTGAGGCCCAGCAGGAGCTGCGCACCGTGAAGAGGAACTGCTGGAGGAGGAGGAGA
AGAATGCCCGGTTGCAGAAGGAGCTGGGGGATGTGCAGGGCCACGGCAGGGTGGTCACCAGCAGAGCCGCCCTC
CACCTGTGGATGAAGAGCCAGAGTCTCTGAGGTGATGCTGCTGGTGGTGGCTGGTGTCTGTGTTAGCAGAA
CATCTCCAACACCCCCAGAGTCGGCAACCACCGTTAAGTCATTATCAAGTCATTGACTTGGGACGCCAGGTG
GAGCTGGACAGAATATTTCTGTCCATAAGACCCCCAGAAGTCCCTAAGTGGGATACCAGTGAGGACTGCTCCAG
CAGCTGCTGTCTCTCCAATGCAGAGGCATTGACTTACAGCAGTGTGCGGCCAGCCAGCAGAGGGGTGACTCAAC
GCTTGGACCTTCTTGACCTTCCCTCTCAGATATTCTAAAGGGAAGGACTGAGACCTGAAGCCAGACCCCCACC
TCCGCAAGAGTCCCTCACTAGAGTCACTGAGCAGACCCCGTCTCTGGGCTTTGGGGACACAAGACTGCTGAGTG
CTTCCACCCGGGCATGGAACCACAAAGCAAACCTCAGTGTGGAAGAAAAGACCTCTGGCAGCCTTGGCCCCGG
AATACGGTGGTTCCAAGCGCAATGCTCTACTGAAATGGTGCCAGAAGAAGACACAAGGTTATGCGAACATTGACA
TCACCAATTCAGCAGCAGCTGGAGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCTACCTGCCTGCCACA
TCCCTTACCAGGAGCTGAATAGTCAGGAGAAAAAGAGGAATCTCTGTTGGCATTGGAAGCGGCTGAAAGTGTAG
GCATCAAACCCAGCCTGGAACCTCAGCGAGATGCTGTACACAGACCGGCCGACTGGCAGAGTGTGATGCAGTACG
TGGCCCAATCTACAAGTACTTTGAGACGTAACCTGGAGGGCTGGGGCAGCCACCATTGCCACCTACTGCAGC
TTTTCCTGGAAGCGCCTGATTACTGTCCACTGACCCTGCTCTGCCACCACCCAGCTGCCTAGACTTCAAAGACA
GGCTCAATCCAAGTGGACCAACACCCAAATAAGAAACAGAGTGGGTCCACGATGTACCTGTCTGAAATGCAAT
GCAGCTGGAAGTGTAAATTGGGGACTCTTTGATCTCTTGTGGGATGCTTCTAAAGAGGGCAGCCTCCCTCTTCCA
GACCAAGACCCACACCCAGGCTTGTGTTGCTGATTATTTGGGTGGCTGAACGAACACATTATCTGCAGAAAT
CAGACAAAGAACATCTCCAAATCAGTCTTTTGGTGTCTGTTGTTAAAAATATCCCGGCTTTGCCCTTATGAAACC
TTTGCCCTTGGCTGGGTGTGGTAGCTCGTGGCTGTAATCCAGCACTTTAGGAAGCCAAGGCAGTAGGATCGTTT

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FIGURE 4752B

GAGCCCAGGAGTTCGAGGCTGCAGTGAGCTATGAGCATACCACTGCACTCCAGCCTGTGTGAAAGAGCCAGACCC
TGTCTC

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FIGURE 4753

MGNHSGRPEDPEPGAFITTTKRTGIPAPREFSVTVSRERSVPRGSPNPRKSVSSPTSSNTPPTPKHLRTPSTKPKQ
ENEGGEKAALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGDTEPMIRALEE
KNKNFQKELSDLEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGNQMSSDIDEYKKNIHG
NALRTSGSSSSDVTKASLSPDASDFEHITAETPSRPLSSTSNPFKSSKCSTAGSSPNSVSELSLASLTEKIQKME
ENHHSTAEEQLATLQELSDQQQMVQELTAENEKLVDEKTILET SFHQHRERAEQLSQENEKLMNLLQERVKNEEP
TTQEGKIIELEQKCTGILEQGRFEREKLLNIQQQLTCSLRKVEEENQGALEM IKRLKEENEKLNFLERHNNN
MMAKTLEECRVTLGLEGLKMENGLKSHLQGEKQKATEASAVEQTAESCEVQEMLKVARAEKDLELSCNELRQELL
KANGEIKHVSSLLAKVEKDYSYLKEICDHQAEQLSRTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRVAVKLH
NNQLISELESSVIKLEEQKSDLERQLKTLTKQMKETE EWRRFQADLQTAVVVANDIKCEAQQELRTVKKLLEE
EEKNARLQKELGDVQGHGRVVT SRAAPPPVDEEPESSEVDAAGRWP GVCVSR TSP TPPE SATTVKSLIKSFDLGR
PGGAGQNISVHKTPRSPLSGIPVRTAPAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGR TETL KPD
PHLRKSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYAN
IDITNFSSWS DGLAFCALLHTYLP AHIPYQELNSQEKRNLLLAFAEAESVGIKPSLELSEMLYTDRPDWQSV M
QYVAQIYKYFET

5154/6881
FIGURE 4754

CGCGGTGCCTTTTGTAGCTCCTTGTCCACGCTCCGCCCCCTGTGGGAACGGCCGCGCTCCCCGCAGCTGGTCATCCG
CCGCCTGCCTCCGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCTGCGCCCGTTGCCAGCACACGACTACTTCGA
GTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAGAGCATACATTAATTTTAGGAATCCTGATGA
CATCCTTCTTTTGTAGATCGTTTTGTATGGGATATATCTTCTTGACAGCAAAGATCCAGAATATAAGAAGTTTT
TAGAAACCTACTGTGTGGAGGAAGAGAAGGCCAGTGCCAACCCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGA
CAAGAGAGCTCATTGCTAGAGAACCACACCTCTTTTGAATATATTAATAATAGAAAATTAGAAAAGCAGAGAA
TTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTGCGGGAAGAGGAAAAAGAA
GAAGAAGAGAAGAAGAAAGATGCAAAAAAAAAAAGAGAGACAGATAAACAGAAGAAAATTGCAGAGAAAAGTA
AGGATTAAGCTTCTTAAGAAACCAGAAAAGGGAGAGGAACCAACCACAGAGAAACAAAAGAAAGAGGAGAGGAG
ATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGTAAAAGCCAGGCCCGTGGAAAGCTCG
CTGGAGGAGCCCCAGGAGACGTCACACAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAA
GAATCTGAAGCACAAGACACCATGTGGATGATGGCAGGAGGCACAGAGCTCACCACGAGCCTGACCGGCTTTCC
AGAGGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAGAGGGAAGAAGGGGAGCCAGGACAGC
GGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAG
CGACTGGCAAACAAGGACCGCCAGCCTTGCAGCTGTATGATCCAGGAGCTCATTCCGAGCGCTAGAGTGTGGC
GGAAACAGGAGATCTGCAAGGCAGAAGGTTGCGGAACCTGGTCTGAGAAGAGGGAAGAGGCAGAGTGAGTCACT
GCACGCACCTGCCTCCATGGACGAGCGAGGGCATCCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGG
AGAACTTATTCCCTTACCAGGAACTGGAAGCTAAACTACAGAGGGTGACATAGAAACACGCAGAAACCATTTCTA
AAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTACCATTCTGTTATAAACTAGTATTT
GTTGTTTAGCCAAAACAGAAAATGATTTCCACTGGACAGTAGAAAAATATGTGTAAATAGGGAAGAAAGTTAGT
ATTGGATCAGTGTGAGTCCTGAAGCACTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTCATTCTTTGTA
AGCAGAGGAGCTGTGAGTCACTCGTGCTTCTCGTTGGCCTCTGAGCCATGGTGTGAGTGAAGAGTAGTTCTTGT
TTGTTACAACCTTTGTGAGTCAGCCATGCCTGCAAAGTGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGA
GTTACACTATATAAAACCCACAGCTTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAAAAAACGG
TTTCAGTCTTTGGATGGATGTGTTTGTGGTTTGTAAACCATTACGGTTTAAACCATGGTTTAAGAATTTGCCAAA
TAACAGAAATTTTGTTCGGGAAGGGATAAACGAGATATAGCATATAGAGCCTGTTTTTGTAGTTTTAGATACTTTA
TTTGTAATAAATTAATAATAGCTTTCTGAAACCGTGCACTTCTGTAGTTTCTTCTTTCAGTGAAATTGCTAAATG
TGAATGTATTTTGGCACTGCGATTTTAACCATTTATTAATAAAAAATTTTGTAAAG

5155/6881
FIGURE 4755

GTAAGACACCTTTGCGAGTCCTTCCTGGGAATCGCTGAGCAGCACGGGGGGCCCCAAAATGGGACCCTGATCACTC
AGACTCTGAGCCAAGCCAACCCCACTGCCATCACTGCAGAAGAATACTTCAACCCCAACTTTGAGCTGGGCAACC
GTGATATGGGCGCGCCCATGGAAGTACCACCAAGACACAGAAGTTCAAGGCCAAGCTGTGGCTGTGTGAGGAGC
ATCCCCCTGTCCCTGTGTGAGCAGGTGGCCCCCATCATTGACCTCATGGCCGTCAGCAATGCGCTTTTTGCCAAGC
TCCGGGACTTCATCACCTGCGTCTGCCCTCTGGCTTCCCAGTTAAGATTGAAATCCCGATCTTCCACATCCTCA
ACGCGCGCATCACCTTCGGGAACCTCAACGGCTGCGACGAACCGGTGCCATCGGTGCGAGGCGAGCCCCAGCAGCG
AGACGCCTTCCCCAGGCAGCGACTCCTCCAGCGTCAGCAGCTCCAGCTCCAAGACCTCCTGXCCGCGGCTGCGAG
ATCTCCCCAGCGTTGTTGAGGCCCCGCGCGGCTACAGCATGATGGGCGGCCAGCGGGAGGCGGCGACCCGGGAC
GACGACGACGACCTGCTGCAATTCGCCATCCAGCAGAGCCTGCTTGAGGCGGGCAGTGAGTATGACCAGGTCACC
ATCTGGGAGGCGCTAACCAACAGCAAGCCAGGCACCCACCCCATGTCTTACGAGGGTTCGCCGACAGGACAGGAGC
GCCCCGCCACGCGCAGCGCCAGCCTGCGCCCCGCGCTCAGTGCCAGCCCTCGGCCAGCTCAGGGCCAGGT
TCCGGCGGCCACGTGTTCGGAGCTACGACGAGCAGCTGCGGCTGGCGATGGAAGTGTGCGGCGCAGGAGCAGGAG
GAGAGGCGGCGGCGCGCGCCAGGAGGAGGAGCTGAGCGCATCTGAGGCTCTCACTGACCGAGCAGTAG
CGCCCCCTGCGGGGACCCTCGCCAGCGCCACGCGCGCCACGCCCCAGGGCCAGGAGCCAGACAAACCCCGCCTGC
GCGCCTGCAGAGCGGCGGCTGGAGACTGGAGCCACCGCCTCGCGGGTGCAGCAGCACAGCAGGCACGGTTCCGGG
AGGGATTTCGGCATGGCCGCGGGGTACCTTCCCAGGCCAGGGCCCTGGAGGCAACTGGCACGGCCTGGTCCCCCTG
CTTTGCTGTATTCTGATTCCCCAACCCGCTCCCTTGGGCTCAGATCTGTCTCTCTAGGGCGGAGCCAGGCGGT
CCTGAGGGGGAGATGAATCCTTAGAGGAGCGCTGTCCCTATCCCTTGCTCCTTCTGGCCGGTCCGCATTTCTGTT
CACTAACCCCACTCCAGGACACTGCCCTGAAGCCTTTGCATCTCTGCTCTTCACTCCTGGGGGGCAGCTGAGCT
CCCCGCGTGCTGTGTCACTGCTTTGTTCAGACACAAACAGCAGCTTAGGGCCAGCCCTCCCCACCCCGG
CATTTAGCGTCAAGTGCACTTAGCGGGGTACCCGGTCCCCAGCCCCACACCCGTCTGGGTCTCAGGGTGG
TTCCAGCTTCTCCTTGGGCAGCCAGAAGTTGGAGTCCCATCCCCCAAGGCACATTTTTTTTTTTTTTTTTTTGTG
ATCAGGGAGTGTGTCCAACGTAGCCCCCTGGCCTGTGCAAGCCCTGACTCCCTCATGGTGCCTCGGAGAGTGGGG
AGCATATTGGGCTGGGGTAAGCACTAGACCCAAGTAGACTGGACACAAAGGGCTCGCCAGGGCCCTGGCGCCAC
CCCCACCCCTTCCCACAGCTGCTGCTAGCCTCTGTGTTGTACATCCCACTTGCCCCACACGGAGACTGACTC
TAAAACCCCTTCATCCAATGGTGCTAACCCCCGGCTCTCCCTGCCCCACCTCACCCACCCAGAGAAGCACAGACC
CCGCCAGGGGCGAGGGCCACCGCACACCCCTTGTCCCGGGCCTGTCTGGGACTGGCCTTCCCGGCTCAGCCAGTG
AGGCTCAGAAGGGACACAAAGAGGGATGGAAGAAAAGAACAAAGAGAACTGTTCCCTCCACCCCTTCCCTGAT
GCCAGGGGCACCAGACTGATTCTGAGGCACAAATAAAGAGGCTTCATACCGG

5156/6881
FIGURE 4756

MTWQRGNRSFVFRGQDTSADVMEIDHRRVVYTETLALAGQDRELLAAQPTTEEQVLSRLTAPVVTTQLDTKNI
SFERNKTGILGWRSEKTEMVNGYEAKVYGASNVELITRTRTEHLSEQHKGVKGCKTPLQSFLGIAEQHGGPQNG
TLITQTL SQANPTAITAEYFNPNFELGNRDMGRPMELTTKTQKF KAKLWLCEEHPLSLCEQVAPIIDLMAVSNA
LFAKL RDFITLRLPPGFPVKIEIPIFHILNARITFGNLNGCDEPVPSVRGSPSSETPSPGSDSSSVSSSSSTTSC
RGCEISPALFEAPRGYSMMGGQREAA TRDDDDLLQFAIQQSLEAGSEYDQVTIWEALTNSKPGTHPMSYEGRR
QDRSAPPTPQRQPAPPASVPSRPSSGPGSGGHVFRSYDEQLRLAMELSAQEQEERRRRARQEEELERILRLSL
TEQ

5157/6881
FIGURE 4757

TCGCCGCTGAGGATGTCCCGAAAGGGGCCGCGAGCGGAGGTGTGTGCGGACTGCAGCGCCCCGGACCCCTGGCTGG
GCATCCATCAGCAGGGGTGTGCTGGTGTGTGACGAGTGCTGCAGCGTGACCCGGAGCCTGGGACGCCACATCTCC
ATTGTCAAGCACCTTCGCCACAGCGCCTGGCCTCCACGCTGCTGCAGATGGTGCACACGCTTGCCAGCAACGGG
GCCAACTCCATCTGGGAGCACTCCCTGCTGGACCCCGCACAAGTGCAGAGCGGCCGGCGTAAAGCCAAACCCCAA
GACAAAGTCCACCCCATCAAGTCAGAGTTTCATCAGGGCCAAGTACCAGATGCTGGCATTGTGTGCACAAGCTTCCC
TGCCGGGACGATGATGGAGTCACCGCCAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCGGACAGGCAACCTG
GAGACATGTCTGCGCCTGCTCTCCCTGGGTGCCAGGCCAACTTCTCCACCCAGAGAAGGGCACCACACCTCTG
CACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTGCTTGTAGTGTATGGGGCTGACCCTGGCTCCCTT
GATGTTAATGGCCGCACACCCATTGACTATGCCAGGCAGGCGGGGACCATGAGCTGGCGGAAAGGCTGGTTGAG
TGCCAATATGAGCTCACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCACAAGAATGGGCATTAC
ATCATCCCACAGATGGCTGACAGATCTCGGCAAAAGTGCATGTCTCAGAGCCTTGACTTATCCGAATTGGCCAAA
GCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTGGAGGAAGTGCATGAGCGTGTATGACGAGGTG
GATCGAAGAGAAAATGATGAGTGTGGCTGGCTACCCAAAACACAGCACTCTGGTGACAGAGCGCAGTGCCGTG
CCCTTCTGCTGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCTTTAATGCC
CGAGAGTTTGCCACCTTGATCATCGACATTCTCAACAACCTCGAGCTGTCTGCGGAGCCAGAGTGACCTCGAC
GACCAACACGACTACGACAGCGTGGCCTCTGACGAGGACACAGACCAGGAGCCCCCTGCGCAGCACCGGCGCCACT
CGGAGCAACCGGGCCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGCTGTGACGCTGCAGGAGTACCTGGAG
CTGAAGAAGGCCCTGGCTACATCGGAGGCAAGGTGCAGCAGCTCATGAAGGTCAACAGTAGCCTGAGCGACGAG
CTCCGGAGGCTGCAGCGAGAGATCCACAAGCTGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTG
CCCACACCTCCACTCCCCAGTGAACGGGCGGAACACACACCCATGGCGCCAGGCGGGAGCACACACCGCAGGGAT
CGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTGGGGGCCCCCTGGGGACGAGCTCACT
ACGCGGCTGCAGCCTTTCCACAGCACTGAGCTAGAGGACGACGCCATCTATTAGTGACGCTCCCTGCTGGCCTT
TACCGGATCCGGAAGGGGTGTCTGCCCTCAGCTGTGCCCTTCACTCCCTCCTCCCGCTGCTGTCTGCTCCCAG
GAGGAAGCCGCCACAGCAAGCTTTCCCGCCACGGCAGTGAGCCGACAGTGACTATGAGAACACGCAAAGT
GGGGACCCACTGCTGGGGCTGGAAGGGAAGAGGTTTCTAGAGCTGGGCAAGAGGAAGACTTCCACCCAGAGCTG
GAAAGCCTGGATGGAGACCTAGATCCTGGGCTTCCAGCACAGAGGATGTATCTTGAAGACAGAGCAGGTCAAC
AAGAACATTAGGAAGTGTGCGGGCAGCCAGGAGTTCAAGCATGACAGCTTCGTGCCCTGCTCAGAGAAGATC
CATTGGCTGTGACCGAGATGGCCTCCCTCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGG
CTGCTAACGCCAGCGCTACCGGCTGCAGAGTGAGTGCCGGAAGACAGTGCCCCCAGAGCCCGGCGCCCCAGTG
GACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGCGCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTCACC
ATCACCAACCCGAGAGAAGAAGCAGTGACCTCTCTCCCCACACCCCTCACCTGCACCCTAGGACCTCACTGGCCATA
GGAGCTGGGCCACTCCAGACATTAATCCCCACCCCAACAGAGCCACTGGCACAAAGTGCCCTTAGTGCTGCCACAC
TCCCTGGCAGCCAGGTGCCCTGGTGCCACCCCTGTGAGCCCTAAGGATGGGGAGGTTGGGGGGCAGGAGCT
TCTGTCCCCCACATTCCATGCACCTCCCTCTGTATATAGCATCTCCCCCTCCTAGTGAGCAGGGGCTGCAAG
GCATCACTCCAGCCCCCTGCGCTTCTAGGGCACCCCTCAGCAAAGGGGCAGGTGGGGACACTCCAAGTGGGGCAGC
TCTCCGTACATGCGCCCCACCCCATGAGCCAGTTACAGCCCTACTGGGGGCTGAGCGGGGGCATCCCTCCTTTG
TACATAGTCTCCATGGATGTCCCTGCCCTGTAGCCACCAGCCCTTGCTGCTCTCCCTTTAATGCCATATGGCCC
CTGCCCTAGGGCACAGGCCCAACCTGTGTGCTGGGGTCCCCAGCAGCAAACACTGGAAAGTCTGTTTTTTTTT
TCTTTCTTCTTCCCCACCCCTTAATTTTAACTTTGTGGTAACTGAGTGCCCCCGGTGCTGCGTGTGAGTGTG
TGGGCGGCAGTGCCGTTCCGGAGGCCTGGTCCATCTGGAGTTTGGAGGGTGAGGGGACCAGAGCAGTGGGACCA
GCATGGGGATCAGCTTCCCTTCCCCACCTGGAGCCAGGGACTGTCCGGGTAGCCAGTTTGGTCTGCCAGCTGC
CTCCCTGATCCCTCCCCACTCTCGCCCTTCTCTATGAACCTAAATCAAAAACCACTTCCCTCCATCTCCTCCTG
CTCCTGCGTGGAGGGGGAATGTGTGCTGGCTAGGGTGGAGGACTGAGCACCTGAGCCTGGGGCTGGCTCCCCGGG
GTCCCCGACTCAGCTGGTGGCTGTGGAGCTGAGTCCCTCCCCGTAACCTCTGCAAGGCCAGCACCCACCATCAC
TACCTGCACCTGCTGTGGTCCCACCTCTGGAGGCCTGGGAACCTGGCTGCAGCCTGGGAAGGCTGGAGAGGCAG
ACGGTGGGACCCACCAGCTCTCTCCCATCCCGCTTCTTCCCTGGGGGCCAGGCCCTACCTGTGTGGTGGTGGT
GGGCTGTCAAGACGTGTATGTACATTTGTATCAAAAATAAAGAAGTGACCATG

5158/6881
FIGURE 4758

AGCCCTCGCGGGGGCAAGGCGGCGACCGAGGCGCGTGGGTCTGGGAAGGCGCGCGGATTTGGCCCTCTTCTCAC
ATCAGCGGGTCCAGGCCCAACCGACAGACTATGGGGCTCCGGCAACCAGGCGCTGCGTGGAGTGGCTGCTGGGC
CTCTACTTCCTCAGCCACATCCCCATCACCCTGTTTCATGGACCTGCAGGCGGTGCTGCCGCGCGAGCTCTACCCA
GTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCCCAGCCTGG
TTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCCTTTCTTTCCCATGCAACGTATGCCTTCTCAA
GGAAGCTGCAAGTGGATTGCAACTCCTGCAATCATCTACTCTGTTACACCATGACAACCTTAATTCCGATACTC
TCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTGCATGAACGG
TTAACCTTGTGCTGTCTATGCCCCCTACTTACTCATCCCATTCATACTTTTAATTTTCTGTTGCGGAGCCCC
TACTACAAGTATGAAGAGAAAAGAAAAAAAATGAAGGAAACAACCACTGGCCAGGGTAGAGATGCCTACAGG
GTGGTTGCTTGTGGATAACAATAAGGAACACTGCTCAGAACCCACGCTTCAGCAGCATTGAAACACTGGCA
GCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCCCTCACCTTCTTCCATTTTTTTTTTTTTTAA
GACAGTCTCACTCTGTTGCCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCCGCCTCC
TGGGCTCAAGCCATCTTCCCTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCTAATTTG
TTTTGTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGGCTCAAG
TGATCTGCCCACCTCAGTCTCCCTAAGTGTGGGATTACAGACGTGAACCACTGGGCCCAGCCCAAACCTTCACC
TTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATAAGGAAG
TGGTACCAATAACTGTGTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACTGCTAAAG
AACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCCTCCACTCCT
GATTCTCAAGAGTGTATCACCTGTGAGCAAAATGAATAGTGGGATATTTTGGCCATTTTAAATGTGAAATTTTG
CCTCTTTAATGTTAATTCAAACTATATCAATGTTTTCTGTTCACCTCTAACCCAAGGAAAAAGAGAAAAAC
ATACTATGCAAAGGAAGTTTAAACTTAAGTTTTCTTAAAGGTCAGCCCAACAATGACTTTCAGTCAAATGGATT
AAACTGGAAAATGTTTTGTTTCTGTGTAAACAGATCATCCTAGGCGAAAGTTTTTTTTGTTGTGTTGCTTTTA
AATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCTGAAGTCT
AGCATCTCAAGGCTGATCIGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTAATACAGTCCGT
CATTCCCATCTTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACATATCCACTGTGTGCATAGAGGGTCT
CTTACAGTTGATGCTTGGCATTCCATCAGCTTTCTTAAGTCTTTGCTCAAGTTCAACCTTAAATGATGTTAGA
CAACAGGTCCCAGTCAGTTCCTCTATTTTCAACCATTTTGCTCACAAGCCATATTGGCCCGATTAGTGGTACTG
TCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCTG

5159/6881
FIGURE 4759

MKRKEKKNEGNNHWPRVEMPTGWLLVGYNTRNTAQNPRLQQHLKHWQQCTRARWCQEPQTLTFFHFFFFFFKTVS
LCCPGWSKGQWHDLGSLQPPPPGLKPSSLASQVARTTGVYQHVLICFVFFVCVETGFCHVAQVGLERLGSSDLP
TSVSLSAGITDVNHWAQPKPSPSKGTGMNRP IGLRVGKGVWARI

5160/6881
FIGURE 4760

GCCACCCAGCTGAGAGGAGAGGGCGCCCCGGGGACGCACTGAGATTATGAGGCTCTGGCCTCCACTGGCCACTCA
CTCGTGACCCTTTCCACCACGGCGGAGCCTTCCAAGCCTACCTCCTGCCGTGTGGTGATCTACCTGCAGCGGGAG
ATGTCGGGGGACACCTGCCTGTGCCAGCCTCAGGGGCCAAGCCCAAGCTCAGTGGCTTCAAGGGAGGAGGGTTG
GGCAACAAGTATGTCCAGCTCAACGTGGGCGGCTCTCTGTACTACCACTGTGCGGGCCCTGACCCGCCACGAC
ACCATGCTCAAGGCCATGTTTCAGTGGGCGCATGGAGGTGCTGACCGACAAAGAAGGCTGGATCCTCATAGACCGT
TGTGGAAAGCACTTTGGCACCATTTTGAATTACCTCCGAGATGACACCATCACCTCCCTCAGAACC GGCAAGAA
ATCAAGGAATTGATGGCTGAAGCAAAGTATTACCTCATCCAGGGGCTGGTGAATATGTGCCAGAGTGGCCTGCAG
GACAAGAAGGACTCTACCAGCCTGTGTGCAACATCCCCATCATCACATCCCTAAAGGAGGAGGAGCGGCTCATC
GAATCCTCCACCAAGCCCGTGGTGAAGCTGCTGTACAACAGAAGCAACAACAAGTATTCCTACACCAGCAACTCT
GACGACCACCTGCTGAAAAACATCGAGCTGTTTGACAAGCTCTCCCTGCGCTTCAACGGCCGCGTGCTCTTCATC
AAGGATGTCTATTGGTGACGAGATCTGCTGCTGGTCTTTTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGT
ACCTCCATCGTGTATGCCACGGAGAAGAAGCAGACCAAGGTGGAATTCAGAGGCCGAATCTATGAGGAGACA
CTCAACGTCTCTACTCTATGAGACTCCCCGCGTCCCCGACAACCTCTTGTGGAGGCCACAAGCCGTAGCCGCAGC
CAGGCTTCCCCCAGTGAAGATGAGGAGACCTTTGAAGTGGGACCGTGTCCGCCGATCCACGTCAAGCGCTAC
AGCACTTACGATGACCGGCAGCTCGGCCACCACTTACCATCGCGACTGACCAAGCCCTCAGGGAGTCAGGGCA
CGGGAGGCCCTATCTCCCATCCTGTGGAACCCGCCCATTTGCCACCCCATGCTGCTGCTGCTGGGTCTCTGCT
CTAGACCCAGAGGCATGACAGGCCCTGCTCAGAGGTGAGAGGTCTGGGCAGAGGAGGGACCACATTCCCTGCT
CTTGCCCTGAGCACTTCTGGAGACTGCGTCTGTCTTATCTGCTCACCATCACCTTCTGCCCCGACGGAGCTG
CTTCTGCTCCCTGGGGCATATGGACTGACCCACCTCTGCTGAGAACCTTCCCTAGGCCCTGTGCAGAAGGCTA
CTGCCCTTAGGCCCTCAGCTGGGGGAAAGGCAGTTCTGGTGTCTGTAGAGGCCCTGGTGCAGAAAGTGGGACGTCT
TTTTCTCTAAGGTGTTTAAGCACAGGCTTGATAAGTTTGGTTTTTAAAAATAATCTAGGAAATGAATAATTCTA
AATCTAGTAATGAGGAACTGAGCATTCTTTTGGCTCCAGGGTGCCAAAGACCTTACATATGACAGAACCCTTG
GCCCTTCTCCATGCCTGTGGGATCTGTTCTTTAAAGCACTTTGTACTGTATTTCAGGAGGTTGATAATCTCCTT
GACCATGTCTTTCTACCTAATCCCACTTCCCTGCAGAATCAATCTGAGGGAGGGGATAAAGAGGAAGCAATA
AAAAAAAACATCCGACAGAGCAGCTCTGGCTTTGCAGCTTGGCCAGCAGCTCAGAGTGACCGAGGAGGGGAAGG
ATGGCTAAGCTGGGACCGGCAGTCTCACAGGGTGCCCTGTGAGAAAGGACATTTTACCCCCACATCATAGTCACA
TCACATACGGTAAAGCCAAAGAGCTGTACATGGGCCAGAAACATGAGCCACGGCAGGAAGACCGTGGAGCCCGT
GGGCACTGCATGGTGTGGCTGGCATGCCCATCAGCTGAGGACAGCAAACCTCCAGCAGCCCTACAGAGGTGGC
ACATGCTTGGCCACACATCTACTCCCTGCCACACCATCTATGCTCTTGGTTGGTGTGGCTGGGATGGCGGTTT
TGCCAGTGGTGTCTCTGAGCGCGGGATGACAGGAGCAACCGAAGCACCCCTGAAGGCCTTCACTCCTTGTGGGT
AACTCAGCCATGGAGATGCCAAGCACTAGCCAGGAGGTGAGTTCTCTTTAGGGCTTTGGTTTTTATTCTTTTT
GTTTGGCTTGGCCAAACAGAATTCAGCTTATCTGAATTATTTTCAAAGGAATGCTGTGACGGGAGGGACTGTTT
TGCCAGCCTAACAAAGCAACGTAGCCACGTATAGTACCCACTTTCTGCTCTTTGGAGAGAACACAGGTTATCAAG
TTCAATCTCTTGTACTACTCTTATGATAGCTGATGCCACAGAGCCTATGGGCAAATGCCAGACCCAGGGTTAGAC
ACAAGGACCTGAAGTGACATGACGGCGGGACAGGGGAAATGTGACTTTCTAATTAGGCATTTTATGTTAGTCACA
GTCTTGAATGTATAAACAGCACTAAGACTCTCAGGTACAGGTACCTTGGTGATCAGCTACTAGTTCTTCCAGCCCT
CATTGAGGTAACAAGATAAAGACAAATCCACTTCTTTGGCCAAATTCAGGCTTTGGCTTTATGACTTTCCACAG
AGACTGGAATGCGTCAGCCTGAGACCACTGGCCTATTTTCTCAGCTGCCCTCTTGGGTCTTTAACACTCAAT
TCCAGCTCCCACTGAGGTGTTGTGATGCTTGCCTTTTGACCTCCCCATCCCTTTAGTCCCTGCTTACTACTT
TGACATTACATCCTCAGTGTCTCAGTCTTTTTTGGCGAGAAAGCACAGTAGTCTGGGACTGGGCATTTATCTTC
TCTGACTGAAAATCTCTCCTTGGTCTTAAGGAAAATACTAACATTGAACCTACTGACATGATCTTAGCTTCTTTA
ATCAGACTTTGTGACTTAAAGTTTGGGGGTTTTCTTTGAAAGTTTCCAGCCCTATTAGAAAGCAACTCTTGGC
TGTGTGCATTTTTCAACTCCAAGCAGCCAGGGGTAAGTAAACAAAGTATGGATGAAGGTGAGATTTTCTTGTCA
GTTTCTGAGAAACCTGGCAGCCTGCTGTTAACAACACAGGCCAGTATTGGGTTTTATTGAATTTGGTATGTGACC
AAGGTGGCCTAAAGGATGGCGCAGGTCTGGGCAGGAAAGAAATTTTCTTTATCACATAACTGTAATATTTGG
TTGCTCAGCATAAGTGATGGAAGCAACACTAATTTCTAATAAAATTGTGTTAAACTC

5161/6881
FIGURE 4761

CCGCGGGTCGGGCTCTGTGTACAGCAGCCGGGCGGGCGCTCGGGCGGGACATGCCAGCCTGTACAGCCCGGCGGGC
CCTGGCCGTGGGCAGCCGCTGGTGGTCCCGGTCGCTGACTGGGGCCCGGTGGCCAAGGCCGCTCTGTGCGGCGGC
CGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGACGCGGAGGCACCTCTCGTCCCGAAACCGACCAGAGGG
CAAAGTGTGGAGACAGTTGGTGTGTTTGGAGTGCCAAAACAGAAATGGAATATGAGACCGGGCAGCTTTTCTT
TCATAGCATTTTTGGCTACCGAGGTGTCGTCTGTTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTC
TGCAGCTCCAGAAAAAGCAGAGAACCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAACTCACACTTACTA
TCAGGTGCTGATTGATGCTCGTGAAGTGCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTTGGC
TAACCATGATGACAGTCGGGCCCTCTATGCCATCCAGGCTTGGACTATGTCAGCCATGAAGACATCTCCCTTA
CACCTCCACTGATCAGGTTCCCATCCAACATGAACCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACC
TCCTTTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCTCCGATGTTCA
TCGGGAACAACACTGAGAACATACGTGTCACTGTCATCCCCTTCTACATGGGCATGAGGGAAGCCAGAAATCCCA
CGTGTACTGGTGGCGCTACTGTATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGGGAGCGGCACTG
GAGGATATTCAGTCTCTCTGGCACCTTGGAGACAGTGCGAGGCCGAGGGGTAGTGGGCAGGGAACCACTGTTATC
CAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCACGTCTCACTGCAGGCTTCCAGTGGGCACATGTGGGGCACGTT
CCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTTCGGATTCTCCCTTCTCCCTGGAAAGCAATAAAGATGA
GAAGACACCACCCTCAGGCCTTCACTGGTAGGCCAGCTGAGGCCCAAGTGGCCAGGCTTGGTCACCGGAAGAA
CAACTCTCATCCCAACAATTGCTGCAGAACTCTTCTCTCCCATCATGGGCCACAGTGGGTCTCTTAATTTGATTG
TGGGGTTCTTTTTGTGGGGAGGGGTGGTATAACTTTTCTTTCAGAAAGCCCATGTGGGACACCTCCAAGGCTGGCC
TCCTCATAAGCCCTGCCTACACCATGTTCCAGTAAACCTCTCCACCAAGGAACCTGTGTTCAGCTGCCACAGGCC
GGAGGAGTTTCTTGGCCTGTACAGTGAGGTTTATCAGTAAACCAAGTGCACGCTTGGCCACCCTTGCCATTTCTG
CTCCCAGAGTCTCAGGCTCCCTTCTGACCCAGTGTGCGCCCTTGAAGCTTTCTTTGCTGCCCTTCCAGGGAGC
TGCCCCCTGGTAGGGCATGTGCCTGTTTCCCTCTCAGCCTGGAGGCTGGCTGGACATCTCCTAGGGTCACTGTG
CCTCTCAGCTAGTTGGCGGGGGTGTGGACTGGACTCTTGTTCACCTTACCTTCTGCCAAATGCAGAGAGGGAGG
CCAGTGTACAGGGTCGGAGTGGCCTGGCTCTTAGCACTGACCGACCATTGCCATTTCTGGCCTCGCTAGGCCCAGG
AGAGGAGGGAGGCAAGCCAGTCGGGTTTCTTGAGCAATGGGTGTGCCAGCCCTCAGCATGACTCTGCCAAGCAT
CCAGACCACAAATGCAGGAATTTGGCTGAGGAGCAGCTTTAGGTATGGATTGATGACTAAGTCAAGCTACTTCTT
GAGCTTCTCTCAGATTTCCAAGAGCCAGAGATGAATTGTGCTGCATCTTGCCCCAATCTTAGGATTTCTTTTCC
TCCGCCACTGCAGTGATTGTTAGAGGTAGTTTTCTTGAATTAATATTAAATCACAGTTCCAGCCCTGTAAAAAA

5162/6881
FIGURE 4762

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTTRHLSSRNRPEGKVLETVGVFVEVPKQNG
KYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKTHYYQVLIDARDCPHISQRS
QTEAVTFLANHDDSRALYAIPGLDYVSHEDILPYTSTDQVPIQHelfERFLLYDQTKAPPFVARETLRAWQEKNH
PWLELSDVHRETTENIRVTVIPFYMGMREAQNSHVYWWRYCIRLENLSDVVQLRERHWRIFSLSGTLETVRGRG
VVGREPVLsKEQPAFQYSSHVSLQASSGHMWGTFRFERPDGSHFDVRIPPFSLESNKDEKTPPSGLHW

5163/6881
FIGURE 4763

CAATCATGGATCAATAGCTATGTTTGGAGAAGGAATTTGTGGCTGCTCCAGCTACTGGGCATTTTGTCTGGTCCA
GTTTCATGTAATCTCCCAACACCCCATGAAGCAAGGCTTTGTTAATCCTATTTTACTGAAAATGAACTAAGACTCA
GAGAGATAAAGCTGTTGCCCAATGAGCCTTCTTTCTGCCCTCCAGATCCACGGTGCTAATCCCCCTTCCGATGAC
CTAATGATTCTGAGCTTGGCAAAGGTCTTATCTCCCAGCTCGCCCAGGCCAGTGTTCAGGAATGTGACCTTTG
CTGCAGCAGCCGCTGGAGGGGGCAGAGGGGATGGGCTGGAGGTTGAGCAAACAGAGCAGCAGAAAAGGCAGTTCC
TCTTCTCCAGTGCCCTCCTTCCCTGTCTCTGCCTCTCCCTCCCTTCCCTCAGGCATCAGAGCGGAGACTTCAGGGA
GACCAGAGCCCAGCTTGCCAGGCACTGAGCTAGAAGCCCTGCCATGGCACCCTGAGACCCCTTCTCATACTGGC
CCTGCTGGCATGGGTGCTCTGGCTGACCAAGAGTCATGCAAGGGCCGCTGCACTGAGGGCTTCAACGTGGACAA
GAAGTGCCAGTGTGACGAGCTCTGCTCTTACTACCAGAGCTGCTGCACAGACTATACGGCTGAGTGCAAGCCCCA
AGTGACTCGCGGGGATGTGTTCACTATGCCGGAGGATGAGTACACGGTCTATGACGATGGCGAGGAGAAAAACAA
TGCCACTGTCCATGAACAGGTGGGGGGCCCCCTCCCTGACCTCTGACCTCCAGGCCAGTCCAAAGGGAATCTGA
GCAGACACCTGTTCTGAAACCTGAGGAAGAGGGCCCCCTGCGCTGAGGTGGGCGCCTCTAAGCCTGAGGGGATAGA
CTCAAGGCCTGAGACCCCTTATCCAGGGAGACCTCAGCCCCCAGCAGAGGAGGAGCTGTGCAGTGGAAGCCCTT
CGACGCCTTCACCGACCTCAAGAACGGTTCCCTCTTTGCCTTCCGAGGGCAGTACTGCTATGAACTGGACGAAAA
GGCAGTGAGGCCTGGGTACCCCAAGTCATCCGAGATGTCTGGGGCATCGAGGGCCCCATCGATGCCGCCTTCAC
CCGCATCAACTGTCAGGGGAAGACCTACCTCTTCAAGGGTAGTCAGTACTGGCGCTTTGAGGATGGTGTCTCTGGA
CCCTGATTACCCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACGTGGATGCAGCCTTGGCCCTCCC
TGCCCATAGCTACAGTGGCCGGGAGCGGGTCTACTTCTTCAAGGGGAAACAGTACTGGGAGTACCAGTTCAGCA
CCAGCCCAGTCAGGAGGAGTGTGAAGGCAGCTCCCTGTGGCTGTGTTTGAACACTTTGCCATGATGCAGCGGGA
CAGCTGGGAGGACATCTTCGAGCTTCTCTTCTGGGGCAGAACCTCTGCTGGTACCAGACAGCCCCAGTTCATTAG
CCGGGACTGGCACGGTGTGCCAGGGCAAGTGGACGCAGCCATGGCTGGCCGCATCTACATCTCAGGCATGGCACC
CCGCCCCCTCCTTGGCCAAGAAACAAAGGTTTAGGCATCGCAACCGCAAAGGCTACCGTTACAACGAGGGCCACAG
CCGTGGCCGCAACCAGAACTCCC GCCGCCATCCCGGCCATGTGGCTGTCTTGTCTCCAGTGAGGAGAGCAA
CTTGGGAGCCAACA ACTATGATGACTACAGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCCATCCAGAGTGT
CTTCTTCTTCTCTGGAGACAAGTACTACCGAGTCAATCTTCGCACACGGCGAGTGGACACTGTGGACCCTCCCTA
CCCACGCTCCATCGCTCAGTACTGGCTGGGCTGCCAGCTCCTGGCCATCTGTAGGAGTCAGAGCCCACATGGCC
GGGCCCTCTGTAGCTCCCTCCTCCCATCTCCTTCCCCAGCCCCAATAAAGGTCCCTTAGCCCCGAGTTTAAA

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FIGURE 4764

MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKKCQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPED
TVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVGASKPEGIDSRPETLHPGRPQPP
AEEELCSGKPFDAFTDLKNGSLFAFRGQCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFTRINCQGTKTYLFKGS
QYWRFEDGVLDPDYPRNISDGFDPDNDVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQP SQEECEGSSLSA
VFEHFAMMQRDSWEDIFELLEFWGRTSAGTRQPQFISRDWHGVPGQVDAAMAGRIYISGMAPRPSLAKKQRFHRN
RKGYRSQRGHSRGRNQNSRRPSRAMWLSLFSSEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLR
TRRVDTVDPYPYPRSIAQYWLGC PAPGHL

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FIGURE 4765A

ACAGACGGCGGGTGAACATGGCGTCCTCGACTTGGTCTGAGACGTGATAGGCCTGCCTTCTGGTTGAAGATGTGG
CGAGTGAAAAAACTGAGCCTCAGCCTGTGCGCTTCGCCCCAGACGGGAAAACCATCTATGAGAACTCCTCTCCGT
GAACCTACCTTCAGCCCGGTGCCCTCACCACCTCTGGAAAAAGATCCCCGCTTGCTCCTCGCTGACCCCATCA
CTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAACCTCATCTCCAGTGGATTTTGTAAATAACAAGAGGACAGAC
TTATCTTCAGAACATTTTCAGTCATTCTCAAAGTGGCTAGAACTTGTGAGCATGAATCAGATGAGCAGCCTCTA
GATCCAATTCCCCAAATTAGCTCTACTCCTAAAACGTCTGAGGAAGCAGTAGACCCACTGGGCAATTATATGGTT
AAAACCATCGTCCTTGTACCATCTCCACTGGGGCAGCAACAAGACATGATATTTGAGGCCCCGTTTAGATACCATG
GCAGAGACAAACAGCATATCTTTAAATGGACCTTTGAGAACAGACGATCTGGTGAGAGAGGAGGTGGCACCCCTGC
ATGGGAGACAGGTTTTTCAGAAGTTGCTGCTGTATCTGAGAAACCTATCTTTAGGAATCTCCGTCCCATCTCTTA
GAGGAGTCTCCACCAAATCCCTGTTCTGAACAACCTACATTGCTCCAAGGAAAGCCTGAGCAGTAGAACTGAGGCT
GTGCGTGAGGACTTAGTACCTTCTGAAAGTAACGCTTCTTGCCCTTCTCTGTTCTCTGGCTTTCCCTTCAACT
GCCTTGGCAGCAGATTTCCGTGTCAATCATGTGGACCCAGAGGAGGAAATTGTAGAGCATGGAGCTATGGAGGAA
AGAGAAATGAGGTTTCCACACATCCTAAGGAGTCTGAAACAGAAGATCAAGCACTTGTCTCAAGTGTGAAGAT
ATTCTGTCCACATGCCTGACACCAAATCTAGTAGAAATGGAATCCCAAGAAGCTCCAGGCCCAGCAGTAGAAGAT
GTTGGTAGGATTCTTGGCTCTGATACAGAGTCTTGGATGTCCCACTGGCCTGGCTGGAAAAAGGTGTAAATACC
TCCGTCTATGCTGAAAAATCTCCGCCAAAGCTTATCCCTTCCCTCGATGCTTCGGGATGCTGCAATTGGCACTACC
CCTTTCTCTACTTGCTCGGTGGGACTTGGTTTACTCCTTCAGCACACAGGAAAAGGTACAAACACATCCCAG
ACAGGCCTGGTTGGCACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGTGGCCGGCCTCCAGATCTGACT
GCCTTGTCTCGACATGACTTGGAAGATAACCTGCTGAGCTCTCTTGTCTATTCTGGAGGTTCTCTCCCGCCAGCTT
CGGGACTGGAAGAGCCAGCTGGCTGTCCCTCACCAGAAACCCAGGACAGTAGCACACAGACTGACACATCTCAC
AGTGGGATAACTAATAAACTTCAGCATCTTAAGGAGAGCCATGAGATGGGACAGGCCCTACAGCAGGCCAGAAAT
GTCATGCAATCATGGGTGCTTATCTCTAAAGAGCTGATATCCTTGCTTCACCTATCCCTGTTGCAATTAGAAGAA
GATAAGACTACTGTGAGTCAGGAGTCTCGGCGTGCAGAAACATTGGTCTGTTGCTGTTTGTATTGTGAAGAAA
TTGAGGGCAAAGCTCCAGAGCCTCAAAGCAGAAAGGGAGGAGGCAAGGCACAGAGAGGAAATGGCTCTCAGAGGC
AAGGATGCGGCAGAGATAGTGTGGAGGCTTTCTGTGCACACGCCAGCCAGCGCATCAGCCAGCTGGAACAGGAC
CTAGCATCCATGCGGGAATTTCAGAGGCCTTCTGAAGGATGCCAGACCCAACTGGTAGGGCTTCATGCCAAGCAA
GAAGAGCTGGTTTCAGCAGACAGTGAGTCTTACTTCTACCTTGCAACAAGACTGGAGGTCCATGCAACTGGATTAT
ACAACATGGACAGCTTTGCTGAGTCGGTCCCACAACCTCAGAGAGAACTCACAGTCAAGAGCCAGCAAGCCCTG
CAGGAACGTGATGTGGCAATTGAGGAAAAGCAGGAGGTTTCTAGGGTCTGGAACAAGTCTCTGCCAGTTAGAG
GAGTGCAAAGGCCAAACAGAACAACCTGGAGTTGGAACAAGCTCGTCTAGCAACAGATCTCCGGGCTCAGTTGCAG
ATTCTGGCCAACATGGACAGCCAGCTAAAAGAGTACAGAGTCAAGATACCCATTGTGCCAGGACCTGGCTATG
AAGGATGAGTTACTCTGCCAGCTTACCCAGAGCAATGAGGAGCAGGCTGCTCAXXXXXXXXXXXGAAGAGATGGCA
CTAAAACACATGCAGGCAGAACTGCAGCAGCAACAAGCTGTCTGGCCAAAGAGGTGCGGGACCTGAAAGAGACC
TTGGAGTTTGCAGACCAGGAGAATCAGGTTGCTACCTGGAGCTGGGTGAGGTTGAGTGTCAATTGAAAACCACA
CTGGAAGTGTCCGGGAGCGCAGCTTGCAGTGTGAGAACCTCAAGGACACTGTAGAGAACCTAACGGCTAAACTG
GCCAGCACCATAGCAGATAACCAGGAGCAAGATCTGGAGAAAACACGGCAGTACTCTCAAAGCTAGGGCTGCTG
ACTGAGCAACTACAGAGCCTGACTCTCTTTCTACAGACAAAATAAAGGAGAAGACTGAACAAGAGACCCCTTCTG
CTGAGTACAGCCTGTCTCCCAACCCAGGAACACCTCTGCCTAATGACAGGACCTTCTTGGGAAGCATCTTGACA
GCAGTGGCAGATGAAGAGCCAGAATCAACTCCTGTGCCCTTGCTTGGAAAGTGACAAGAGTGCTTTACCCCGAGTA
GCATCAATGTTTTCCCTTCAGCCCGCAGAGACCCAGGCATGGAGGAGAGCCTGGCAGAAATGAGTATTATGACT
ACTGAGCTTCAGAGTCTTTGTTCCCTGCTACAAGAGTCTAAAGAAGAAGCCATCAGGACTCTGCAGCGAAAAATT
TGTGAGCTGCAAGCTAGGCTGCAGGCCCAGGAAGAACAGCATCAGGAAGTCCAGAAGGCCAAAAGAAGCAGACATA
GAGAAGCTGAACCAGGCCTTGTGCTTGCCTACAAGAATGAAAAGGAGCTCCAGGAAGTGATACAGCAGCAGAAAT
GAGAAGATCCTAGAACAGATAGACAAGAGTGGCGAGCTCATAAGCCTTAGAGAGGAGGTGACCCACCTTACCCGC
TCACTTCGGCGTGCGGAGACAGAGACCAAAGTGTCCAGGAGGCCCTGGCAGGCCAGCTGGACTCCAATGCCAG
CCTATGGCCACCAATTGGATCCAGGAGAAAGTGTGGCTCTCTCAGGAGGTGGACAACTGAGAGTGATGTTCTG
GAGATGAAAAATGAGAAGGAAAAACTCATGATCAAGTTCCAGAGCCATAGAAATATCCTAGAGGAGAACCTTCGG
CGCTCTGACAAGGAGTTAGAAAAACTAGATGACATTGTTTACAGCATATTTATAAGACCCCTGCTCTCTATTCCAGAG

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FIGURE 4765B

GTGGTGAGGGGATGCAAAGAACTACAGGGATTGCTGGAATTTCTGAGCTAAGAACTGAAAGCCAGAATCTGCTT
CACCTCTTTTTTACCTGCAATACCCCTTACCCCAATACCAAGACCAACTGGCATAGAGCCAACTGAGATAAATGC
TATTAAATAAAGTGTATTTAATG

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FIGURE 4766

MWRVKKLSLSLSPSPQTGKPSMRTPLRELTLPQALTNNGKRSPPACSSLTPLSLCKLGLQEGSNNSSPVDFVNNKR
TDLSEHFSHSSKWLETCQHESEDEQLDPIPIQISSTPKTSEEAVDPLGNMVKTIIVLPSPPLGQQQDMIFEARLD
TMAETNSISLNGPLRTDDLVREEVAPCMGDRFSEVAAVSEKPIFQESPSHLLSEPPNFCSEQLHCSKESLSSRT
EAVREDLVPSESNAFLPSSVLWLSPPSTALAADFVNHVDPSEEEIVEHGAMEEREMRFP THPKESETEDQALVSSV
EDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGVNTSVMLLENLRQSLSLPSMLRDAAIG
TTPFSTCSVGTWFTPSAPQEKSTNTSQTGLVGTKHSTSETEQLLCGRPPDLTALSRRHDLEDNLLSSLVILEVLSR
QLRDWKSQALAVPHPETQDSSQTDTSHSGITNKLQHLKESHEMGQALQQARNVMQSWVLISKELISLLHLSLLHL
EEDKTTVSQESRAETLVCCCFDILLKLRKLSLKAEREERHREEMALRGKDAAEIVLEAFCAHASQRISQLE
QDLASMREFRGLLKDAQTQLVGLHAKQEELVQQTVSLTSTLQQDWRSMQLDYTTWTALLSRSRQLTEKLT VKSQQ
ALQERDVAIEEKQEVSRVLEQVSAQLEECKGQTEQLELENSRLATDLRAQLQILANMDSQLKELQSQHTHCAQDL
AMKDELLCQLTQSNEEQAAQWQKEEMALKHMQAELQQQQAVLAKEVRDLKETLEFADQENQVAHLELGQVECOLK
TTLEVLRRERSLQCENLKDTVENLTAKLASTIADNQEODLEKTRQYSQKLGLLTEQLQSLTLFLQTKLKEKTEQET
LLLSTACPPTQEHPLPNDRTFLGSILTAVADEEPESTPVPLLGSDDKSAFTRVASMVSLQPAETPGMEESLAEMSI
MTTELQSLCSLLQESKEEAIRTLQKICELQARLQAQEEQHQEVQKAKEADIEKLNQALCLRYKNEKELQEVIIQQ
QNEKILEQIDKSGELISLREEVTHLTRSLRRAETETKVLQEALAGQLDSNCQPMATNWIQEKVWLSQEVDKLRVM
FLEMKNEKEKLMIKFQSHRNILEENLRRSDKELEKLDIVQHIYKTLLSIPEVVRGCKELQGLLEFLS

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FIGURE 4767

CCTTTGCCTTTGAGGCTCTGTGGCTGTGGGGCTGAGTGGCATCATGGCGGCTCAGAAAGATCTCTGGGACGCCAT
TGTGATTGGGGCGGGGATCCAGGGCTGCTTCACTGCATACCACCTGGCCAAACACAGGAAGAGGATCCTCCTGCT
GGAGCAGTTCTTTCTACCACACTCCCGAGGAAGCTCCCATGGACAAAGCCGGATAATCCGAAAGGCGTACCTGGA
AGACTTTTACACCCGGATGATGCATGAGTGCTATCAGATATGGGCCAGCTGGAGCACGAGGCTGGAACCCAATT
GCACAGGCAGACTGGATTACTGCTGCTGGGAATGAAAGAGAATCAAGAATTAAAGACAATCCAGGCCAATCTGTC
GAGGCAGAGGGTAGAACACCAGTGTCTTTCATCTGAGGAAGTGAAGCAACGTTTCCCAAATATTTCGGTTGCCCAG
GGGAGAAGTGGGGCTCTTGACAAATTCCGGAGGAGTTATCTATGCATATAAGGCCCTCAGAGCCCTGCAGGATGC
AATTCGACAGCTAGGAGGCATAGTGCCTGACGGAGAGAAGGTGGTGGAGATAAACCCAGGGCTACTGGTCACGGT
GAAAACCACCTCCAGGAGCTACCAAGCTAAGAGCTTGGTCATCACAGCAGGTCTTGGACCAACCAGCTCCTCCG
TCCCCTGGGCATTGAGATGCCTCTCCAGACCCTGCGGATCAACGTGTGTTACTGGCGAGAGATGGTTCCTGGGAG
CTATGGTGTGTCCCAGGCCCTTTCGTGCTTCTGTGGCTGGGCTTGTGTCCCCACCACATCTACGGACTGCCAC
AGGAGAGTACCCAGGGCTGATGAAGGTCAGCTATCACCACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCCC
CACAGCACGCACAGACATCGGAGACGTCCAGATCCTGAGCAGCTTTGTGAGAGATCACTTACCTGATCTGAAGCC
CGAGCCTGCTGTCTATTGAGAGCTGCATGTACACGAATACCCCTGATGAGCAGTTTATTCTCGATCGCCACCCAAA
GTATGACAACATTGTCATTGGTGTGCTGGATTCTCTGGGCACGGGTTCAAGCTGGCCCCTGTGGTGGGGAAGATCCT
GTATGAATTAAGCATGAAATTAACACCATCTTATGACTTGGCACCTTTTCGAATCAGCCGTTTCCCAAGCCTGGG
CAAAGCCCACCTTTGACCTCTGGCCAGAAGCCTCCCTTCTGTGCACAGGAGCCAGTTTCACAGATGGAGAAGATG
TCTCAGATGAAGGGAGTGTCCCTGAGATATCATCCTTTTCTTCTGCCTCGCCTGAATCCCCCATAAACACCAGAT
GATTGAGTCTACCTTCTTTCTTGGCCCGCTCCCTTTTTCTTCTGCCTCACTTGAATCCCCCGTAAACACCAGAC
GATTGAGTCTACCTTCTTTCTTGGCCACCTCCCCATTCACTACTTTCTCGCTCCCAGAAGGTTGATCAGAT
ATTCTACAATCACAGAGTAGCAAGGACGTTTGAAGATGGGTATATCAGTAAGAAGAGGGCACAAGAAGTGGCTCTG
GAGACCAAAGCAGTTGTTAAAAATTCTTTGCTGGGGGCCGGGTGTGGTGGCTCACACCTGTAATCTCGGCACT
TTGGGGGGCTGAGACAGGCGGATCACCTGAGGCCAGGAATCAAGACCAGCCTGGCCAACATGGTGAAACCCCTAT
CTCCACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCAGCTACTTGGGAGACTGAGGCA
AGAGAATCACTTGAACCCGGGAGGTGGAGGTGGCAGTGAGCCGAGATTGCGCCATTGCACTCCAGCCTGGGCAAA
AAGAGTGAGACTCTGTCTCAAAAAAAAAACAAAACAAAAAACCTCTTTGCTGGTATATTTGAAGAGCTTGGGA
TGGATTGACTAAATCTGCCCCGAGGAGGGTGAACAAGGTGATCTCAGAGATCACTACTGCTCTTGGAGTTCCTT
CTCCTAAAGCTAAGGCCAGCCTCCATCACAATGCCCATAAAATCTGGCTCGTCTTTGATGAACAATAAATATT
GTTGAACAATAAATAACTGCCCTGC

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FIGURE 4768

GCTTGACCACTAIGCTATCATCAAGTTTCCGCTGACCACTGAGTCTG⁵CATGAAGAAGATAGAAGACAACAACAC
ACTTGTGTTCAATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTGTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGCATATGTTGACTGGCTCCTGATTACGA
TGCTTTGGATGTTGCCAACAAAGTAAGTTTCCTTCCTACAAACCCCTTAATGCTCACCCCTTGGGTGCAAATGAT
GCATATGTTAGCGACCAAAGCCTGATCTTTGCTGATTAGTCATAATTAAGTACTGCACCCCTATCCTTGACAAA
CCTTATCCTCACATTCCTCATTTTGCTTT

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FIGURE 4769

TCAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGC
TGGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTAC
GTCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCATTCCCTGCCCTAATCGCTGCCCCATGAAGCTGA
GCCGCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCCAAGCGGCGCCTCAAGTGCGAGTTTTGTGGCTGTG
ACTTCAAGTGGGGAGGCCTATGAGAGCCATGAGGGTATGTGCCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTG
GTGCCCCGATGATGCGCGGCTGCTGGCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCT
ACTGCTACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAGTACCAGTGCCCAAGGCTGCCTGTTGCCTGCC
CCAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCCATCTGAAGGACAGCTGTAACACCGCCC
TGGTGCTCTGCCCATCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGG
AGAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGCAACGGCAGGAGCTGCAGGAGCTTCGGC
GAGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTAC
AGGAGGCCAAGGCCAAGCCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGC
AGGTGTCTGCATTCTCAATGGCAATGGCAGTGGTGAGGGCACACACCTCTCACTGTACATTTCGTGTGCTGCCCTG
GTGCCCTTTGACAACTCTCCTTGAGTGGCCCTTTGCCCGCCGTGTACCTTCTCCCTGCTGGATCAGAGCGACCCTG
GGCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCA
CGTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCCACCAGGACATTCGAA
AGCGAAACTAIGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAACTGCCCCGGAAGATCCTCAGCTGAG
TGCAGGTGGGGTTCGAGGGGAAAGGACGATGGGGCATGACCTCAGTCAGGCACTGGCTGAACTTGGAGAGGGGGC
CGGACCCCCGTGAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCTCCCTCCCCAGCCACCACCTCAGGT
GCCTCCAATTGGTGCTTCAGCCCTGGCCCCCTGTGGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGA
CCCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTG
CCTGCTCAGGTGCTATGTCCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTC
TGTCTTGAGATCTGATTTTTTCCCCCTTTACCTAGCTGTGCCCCCTCTGGTTATTTATTTCTTAGTGCCAGGAG
GGCACAGCAGGGGAGCCCTGATTTTTAATAAATCCGGAATTGTATTTATT

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FIGURE 4770

MPGFDYKFLEKPKRRLLCPLCGKPMREPQVSTCGHRFCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGHINTCSFNVIPCPNRCMPKLSRRDLPAHLQHDCPKRRLKCEFCGCDFSG
EAYESHEGMCPQESVYCENKCGARMMRLLAQHATSECPKRTQPCTYCLXXSSSLTPSRATSTSAQGCLLPAPT
NVVWALWLGRTCQAI

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FIGURE 4771

GAGACTCGCCCGGCTCAACCCCGACGTCCGCGCCCCGGCCGCTGTTGGCCATGGCGGGCCTGGGCTGGGCTCC
GCCGTTCCCGTGTGGCTGGCCGAGGACGACCTCGGCTGCATCATCTGCCAGGGGCTGCTGGACTGGCCCGCCACG
CTGCCCTGCGGCCACAGCTTCTGCCGCCACTGCCTGGAGGCCCTGTGGGGCGCCCGGACGCCCGCCGCTGGGCC
TGCCCCACTTGCCGCCAGGGCGCGCGCAGCAGCCGCACCTGCGGAAGAACACGCTACTGCAGGACCTGGCCGAC
AAGTACCGCCGCGCCGACGCGAGATACAGGCGGGCTCCGACCCTGCCACTGCCCTGCCGGGCTCCAGTTCC
CTCTCCAGCGCGCCGCGAGGCCCCGGCGCCGCCGGAAGTGCAGCGGGTGGCAGTAGAGAAGAGCATCACAGAA
GTTGCTCAGGAGCTGACAGAGCTGGTGGAACTCTTGATAGACATTGTGAGAAGCCTGCAGAATCAGAGGCCCTA
TCAGAATCTGGACCAGACAACGAAGTGAAGCATCTGGGCAAGGAGAAGTCTGGAAGCCCCGCTCTCTCTCAT
GCCCATTGCCTGACCAGAGCCACCCTGCACTCAGGAGAGCTTCTCGGTTTGCTCAGTGGGCCATCCATCCAACCT
TTAACTTGAAGAGCCTTCTCTGCAGCCTGGAGGTGTCCAAGGATTCCCGTACAGTGAAGTGTGTCTACCGCCAC
AACCTATCGCTGGAGCTGTGAGAGGTTTTCTACCAGCCAGGTCTTATGTTCCAGGCCCTGTCTCTGGAAAGC
ATTACTGGGAAGTGGACACTAGGAATTGCAGCCACTGGGCAGTTGGGGTGGCTTCTGGGAGATGAGCCGCGACC
AGGTCTGGGAAGGACTATGGACTCTTGTGTGTGGAATGGAAGGGGACTAGCCAGCTCTCTGCATGGCACATGG
TCAAGGAAACTGTCTTGGCTCAGACAGACCTGGGGTGGTGGGCATCTGGCTGAACCTTGAGGAGGGAAGCTTG
CCTTCTATTAGTGGACAATCAGGAGAAGCTTCTGTATGAGTGTACCATCTCTGCTCCTCTCTCTTGTACCTG
CCTTCTGGCTGTATGGCTTACATCCTGGAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCTAAGGG
ATTACAACACAGTGGTTTCTTGGTCTCTCTCCCTGTCAATCAGGGTAGTAAGTGAAGTAAAGGTTTCTAAGGG
TTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCAGGCTGGTGTGCAATTCTGGTCTCAAGCAGT
CCTCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTGAGCCACCACCTGGCCAAGAATACCACTTTTG
AAGTTAATCCTTTTGTGTGATACAGGATGAAGTGGGATGTTTGAACCCTGGACATTCCAATAAAGAATAGGCC
CCTGCCTGGCTCCTGGGAGATAACCTCTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTGTTTGTGTTTACCTGT
GGGCTTGGGCCATGCAGTATCAGCTTGACCTTGCAAGGTCAAGCTGAGGAGACTAAGTTAGCCATGTGGGCAGT
GAAGCATGCCAATGTGATCAATCCCTAGTAAAGCCCTGGACACCTAGGCATGGGTGAGCTACTCTGGTTGGTAA
TACTCTGTGCACACATCATTGTAGCCACACATCATTGCTGGGAGAATTAAGCATTATCCTGAAGACTCTGCCAGG
AGAGGATAATTGGAAGTCTCTTGGACCTTACCTTATGTGCTTTCTTCATTGCTGATTTTAATCTGTATCCTTT
CACTGTAATAAACTGTAAGTATGAGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4772

MAGLGGLGSAVPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACPTCRQGAAQOPHLRKN
TLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRPELQRVAVEKSITEVAQELTELVEHLVDIVR
SLQNQRPLSESGPDNELSILGKENSWKPRLPPhAHCLTRATLHSGELLGLLSGPSIQPLT

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FIGURE 4773A

AGGTGGAAAACTTGTGAAATATTTGGATCCCAACGACCTGGGGAGAATCAACTTCAAGGACTTTTGCCGGGGGG
TGTTCCGCCATGAAAGGGTGCGAGGAGCTGCTGAAGGATGTGCTGTCGGTGGAGAGCGCGGGGACGCTGCCGTGCG
CGCCAGAGATCCCAGACTGCGTGGAGCAGGGCAGCGAGGTACAGGCCCCACCTTTGCTGATGGCGAGCTCATCC
CCAGGGAACCCGGCTTTTTTCCCGAGGACGAGGAGGAGGCTATGACGCTGGCGCCACCTGAGGGCCCCCAGGAGT
TGTACACAGACAGCCCCATGGAGAGCACTCAGAGCCTGGAGGGGTCTGTCGGGAGTCTGCCGAGAAGGACGGGG
GACTTGGGGGCTGTTTCTGCCAGAAGACAAGTCCCTGGTCCACACTCCATCCATGACGACCTCAGACCTTTCTA
CACACTCCACCACCTCGCTCATCAGCAATGAGGAGCAGTTTGAAGACTATGGGGAGGGTGACGATGTGGACTGTG
CCCCAGCAGCCCTTGCCCCGATGATGAGACCAGGACCAACGTCTACTCGGACCTGGGGTCTTCGGTGTCTTCCA
GTGCGGGGCAGACGCTTAGGAAAATGCGGCACGTGTACAACAGCGAATTGCTAGATGTTTACTGCTCTCAATGCT
GCAAGAAAATCAACCTGCTCAATGACTTGAAGCCCGACTGAAAAACCTGAAGGCCAACAGCCCCAACCGAAAGA
TCTCCAGCAGCGCCTTTGGACGGCAGCTCATGCACAGCAGCAACTTCAGCAGCAGCAATGGCAGCACCGAAGACC
TGTTCCGGGACAGCATTGACTCTTGCGACAATGACATCACAGAGAAGGTAAGCTTCCTGGAAAAGAAGGTGACAG
AGCTGGAGAATGACAGCCTGACCAATGGGGACCTGAAGAGCAAGCTGAAGCAAGAGAACACACAGCTGGTGCACA
GGGTGCATGAGCTGGAGGAGATGGTGAAGGATCAGGAGACCACGGCCGAGCAGGCTCTGGAGGAGGAGGCGCGGC
GCCACCGCGAGGCCTACGGCAAGCTGGAGAGGGAGAAGGCTACCGAGGTGGAGCTGCTCAATGCCAGGGTGCAGC
AGTTGGAGGAAGAAAATACAGAGCTTAGAACAACAGTGACTCGGCTCAAGTCTCAAACAGAGAACTGGATGAGG
AGCGGCAGCGCATGTCTGACCGTCTGGAGGACACCAGCCTGCGGCTCAAAGATGAGATGGACCTGTACAAGCGCA
TGATGGACAAGCTGCGACAGAACCGCCTTGAGTTCCAGAAGGAGCGGGAGGCGACGCAGGAGCTCATCGAGGACT
TGCGGAAGGAGCTGGAGCACCTGCAGATGTACAAGCTGGACTGCGAGCGGCCAGGCAGGGGCCGAGTGCCTCCT
CTGGCCTAGGCGAGTTCAATGCCAGGGCCCGCGAGGTGGAGCTCGAGCACGAGGTCAAGCGGCTCAAGCAGGAGA
ATTATAAGCTGCGGGATCAGAACGACGACTTGAATGGGCAGATTTTGAGCCTCAGCCTCTACGAAGCAAAAAACC
TCTTTGCTGCCCAGACTAAAGCCAGTCTCTGGCTGCGGAGATAGACACCGCCTCGCGCGATGAGCTAATGGAAG
CCCTGAAGGAGCAGGAGGAGATCAACTCCGGCTGAGGCAGTACATGGACAAGATTATCTCGCCATCTCTGGACC
ACAATCCCTCCATCTCGAGATCAAACACTAAGGCACGGGGCTGGCTGCAGAGCAGCCTTAGGACCCTGGGACCA
AGGGCAGACCCTGCCAAGGATGCAGGCCTAAGCCGGGCCTCACACTCACACTGTAATGTCTCTCTGGCCACCA
TGCGTTACGTGTACCCGTGTATATGTGGGGAGGCTGTGCACACGAGCGAGGGGTGAGTGGCCGTGGCTGTGGGCA
GCATCCACACGGTTAGCCGTGCATGCACTTTGTGGCCCTTTGCAAGGGGCAGAGGGTACTGGAAGTGGGAGGAG
GCAAGGTCTGCTATCAGGAGTTACTGTAAAAACAAGAACTGGAAGCTCGTGTTCGGTACTGGGTAAAATGATT
CTACCTCTGGGGATAAGGATTACATTGCTCTAGTACGATGGGCTCTTACCCCCACTCTAGTCCCCTTGGGA
GTGGGAGCAAAATGTGATCTTTCTAGGAGTTTGAATGCCCCATATTGTGTCTCGCCAGCTCTTTGGCCACC
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